

SMOKE SIGNALS

For Radio Amateurs • By Radio Amateurs

Published Monthly Since 1969 • Our 26th Year
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Field Day: Shelter is Where You Find it



The Yellow Thunder Amateur Radio Club (WB9FDZ) operated from its usual scenic location for Field Day 1995: Owen Park, about halfway between Baraboo and Portage, and right on top of a high hill. Improvisation is what Field Day is all about. Bill Klinkner, N9KXX, a club member from Sauk City, proved that when he set up with an HT, an MFJ portable beam, and a porta-potty for shelter (among other things). Bill reported that there were even two nice rolls of logging paper in there, but it was a bit difficult to write on the stuff. He also said the chair was most comfortable, but that he did not care for the spiders and other native wildlife he found sharing his (their) space.

- Photo by BSSS staff

American Radio Relay League Supports FCC Rules Changes

The ARRL has filed comments on FCC WT Docket 95-57, a notice of proposed rule making on five items of importance to amateurs. These items, described in detail in page 82 of July 1995 QST, are:

1. A lifetime amateur operator license, originally proposed by the League in a petition filed January 6, 1994. The ARRL said in its comments that it believes a "relatively substantial" number of amateurs would benefit from such a lifetime license. However, the League said that the Commission's proposal is not quite what the 1994 petition requested, but, rather, that former licensees be given credit for examinations passed in the past. This would create an unnecessary burden for volunteer examiners, the League said, and would assign to them a function contrary to the Communications Act.

2. On April 4, 1994, the League petitioned the FCC to change the number of bona fide members necessary to constitute an Amateur Radio club from two to four, for the purpose of applying for a club station license. The FCC has recently resumed issuing of club station licenses after a 15-year hiatus, and the League said

that since the FCC no longer requires the filing of organizational documents from clubs, that increasing the required number of members to four (as the FCC has proposed in WT 95-57) is more important than ever.

3. The League strongly opposed the creation of a "session manager" for volunteer examiner test sessions, as proposed by the FCC based on a petition by the Rules Committee of the National Conference of Volunteer Examiner Coordinators. The League said, among several arguments, that there is no reason why the (required) three VEs should not be held jointly responsible for the proper conduct of an examination, and said that the FCC's plan would undermine the integrity, both perceived and actual, of the VE program.

4. The League supported a proposal that the FCC issue special one-by-one call signs for certain special event stations.

5. The League also supported allowing portable indicators to be sent before, after, or both before and after the station call sign, as the operator chooses.

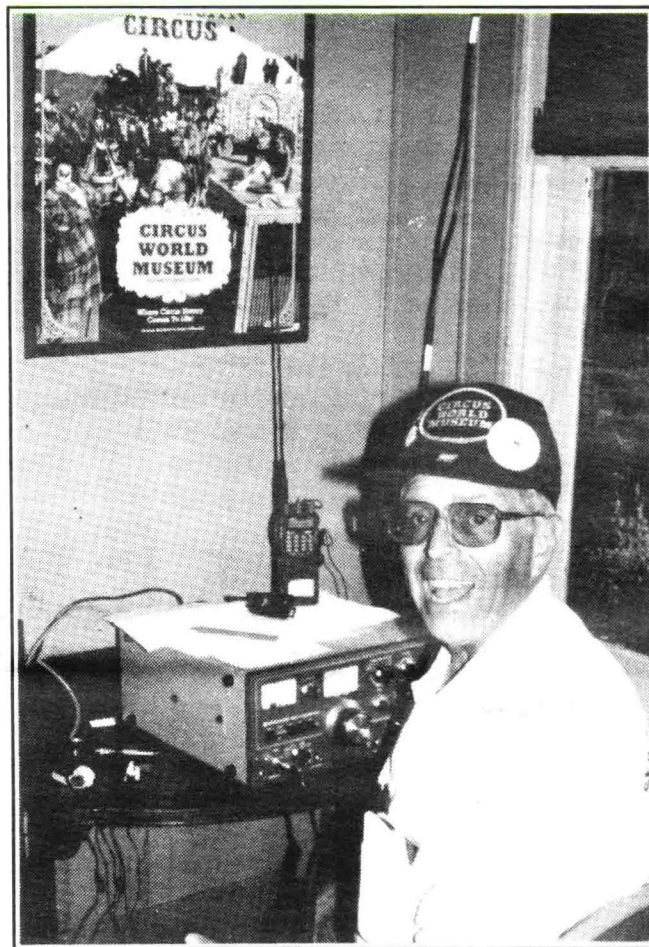
- ARRL Bulletin ARLB071, 7/17/95

Hamming it up from the Great Circus Train

At 9:15 a.m. on Monday, July 10, the Great Circus Train pulled out of the Union Pacific rail yard in Baraboo to start its winding journey to Milwaukee. For the second year, an HF station was aboard, operating on 20 and 40 meters. In 1994, poor antenna adjustment and equally poor antenna location resulted in less than 20 contacts. This year's HF effort produced much better results, after several RF experts were consulted. They are listed later in this story. The 1995 operation yielded 55 good contacts in 30 states and one Canadian province. The first QSO from the train, at 0001 UTC July 10, was Harv Hamer, K9YHO.

After the train began rolling, Maury's first QSO was with Roy Neal, K6-DUE. And, the QSO tally just began climbing and climbing. Stations being worked asked many questions about the train, about the museum and parade, and about the ham gear and especially the antenna.

The antenna was peaked for maximum field

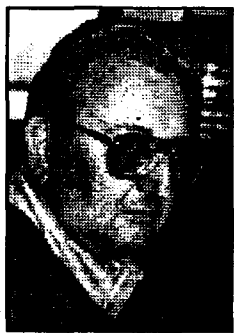


Maury Mead, W9FBC, operated 20 and 40 meters mobile on July 10, 1995, from the Great Circus Train, which carries more than 60 priceless, beautifully restored antique circus wagons from Baraboo's Circus World Museum to Milwaukee for the Great Circus Parade. The train's journey takes two days. The operator on July 11 was K9ZZ. Milwaukee County ARES operates in the next passenger car, providing cellular and Amateur Radio communications (2 meters) for logistic support for the train, its base office in Milwaukee, and the Circus World Museum.

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✕ Amateur Radio Exam Schedules

EDITED BY KENNETH A. EBNETER, K9EN, 822 WAUONA TRAIL, PORTAGE, WI 53901

Swapfests and Other Social Events

SUNDAY, AUGUST 6, 1995. The Marshfield Area Amateur Radio Society will be holding their 4th annual picnic. Gather around 11:00 a.m. Potluck & Swapfest, in Wildwood Park, Marshfield, WI. Talk in on 147.180. All welcome. Contact: Guy A Boucher, KF9XX, 107 West Third Street, Marshfield, WI. 54449. (715) 384-4323. Packett:KF9XX @ W9IHW.WI.USA.NA

SATURDAY, AUGUST 12, 1995. Northwoods Hamfest, at Sugar Camp town hall near Rhinelander, WI. Contact Mary Berger, NS9Q, 367 Lois St., Rhinelander, WI 54501. (715) 362-9296.

SATURDAY, AUGUST 26, 1995, 8:00 am - 3:00 pm. Hamfest-Computer Expo-Antique radio show, Omni Center Onlaska, Wisconsin. Sponsored by the Riverland Amateur Radio Club. 2-1/2 Miles North of La Crosse, Wi. on Highway 35. Friday unloading and setup begins at 8PM and will shut down and lock up at 12 midnight. Saturday unloading 6AM - 8AM. Admission: \$3.00. Fleamarket Tables: \$7.00 + Admission Fee. Fleamarket AC Power \$12.00. Tailgating Fee: \$7.00 + Admission Fee. Free Parking and FREE Coffee, Comercial Vendors, Hourly Drawings. Contact: Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, Wi. (608) 784-9176,

SATURDAY, AUGUST 26, 1994. Riverland Hamfest-Computer Expo and Antique radio show. La Crosse, WI. Contact: Dick Low, KOJYB, 1520 Nakomis Ave., La Crosse, WI 54603. (608) 784-9176.

SUNDAY, AUGUST 27, 1995. Woodstock Hamfest, McHenry County Fairgrounds, Woodstock, IL. Contact: TCRG, PO Box 3107, Skokie, IL, 60076-6107.

SATURDAY, SEPTEMBER 2, 1995. It's true! Mighty little Hayward in northern Wisconsin is holding its first Hamfest on the LABOR DAY week-end from 8AM to

2PM. Free Coffee. Pretty good food. Tables \$10. Tickets \$5.00 Write John Kruk N9UPC PO Box 13160 Hayward, WI 54843 or call 715-634-4940. We have rented the Armory and they do NOT allow tail-gating. Sorry! All sales inside ONLY.

SUNDAY, SEPTEMBER 10, 1995. Iowa Radiofest, Dubuque Hamfest & Computer Expo., Tri-State Blind Society, 3333 Ashbury Road, Dubuque, IA. Contact: Larry Pense, WOUST, 619 Kaufmann Ave., Dubuque, IA 52001, (319) 588-1085, Loren Heber, NOYHZ, 9479 Lauderville Road, Dubuque, IA 52003. (319) 583-5755, or J. Ehlers, NONLU, (319) 583-1016.

SUNDAY, OCTOBER 15, 1995. Kettle Moraine Radio Amateurs Swapfest, Waukesha County Expo Center. Contact: KMRA Swapfest, PO Box 411, Waukesha, WI 53187-0411.

SATURDAY, NOVEMBER 4, 1995. 11th annual Friendlyfest 8:00 a.m. to 1:00 p.m. at the Waukesha County Expo Center, Waukesha, WI. Contact Milwaukee Repeater Club, Inc., PO Box 2123, Milwaukee, WI 53201.

SUNDAY, NOVEMBER 4, 1995. Fox Cities Hamfest, Starlite Club, Hwy 55 North of Kaukauna. Contact: Dan Vanevenhoven, N9LVS, 2410 E Newberry Ct., Appleton, WI 54915. (414) 739-5101.

SUNDAY, JANUARY 14, 1996. 24th Annual Midwinter Swapfest, Waukesha County Expo Center Forum, Waukesha, WI. Contact: WARAC Swapfest, PO Box 1072, Milwaukee, WI. 53201.

TUESDAY, FEBRUARY 27, 1996. Red Cedar Repeater Association, Inc., American Legion Post 53, 634 Water St., Eau Claire, WI. Contact: Steve Hart, KA9OMC, E616 810th Ave., Knapp, WI 54749. (715) 665-2374.

SUNDAY, MARCH 10, 1996. SEWFARS Swapfest, Waukesha County Expo Center, Waukesha, WI. Contact: SEWFARS PO Box 102, Delafield, WI 53018. (414) 789-1034.

See also the back page and flyer ads for additional information on many of these events.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas. Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings



Due to space limitations, we cannot always carry the full listing of Wisconsin and area club meetings. Please see the January 1995 meetings column for the latest complete listing. The following are additions or changes since that listing.

M & M AMATEUR RADIO CLUB

General meeting held second Thursday each month at 7:00 p.m. at Menominee BAMC 4th floor, Tenth Ave., Menominee, MI 49858.

MANITOWOC COUNTY RADIO AMATEURS

Directors Meeting: First Wed. Held at 7:30 p.m. in the basement, Manitowoc City Hall, 817 Franklin St., Manitowoc.

General meeting: Second Wed. Held at 7:30 p.m. at Associated Manitowoc Bank, corner of 10th and Franklin Streets.

WISCONSIN RAPIDS AMATEUR RADIO CLUB

Third Wednesday, 7:00 p.m. Emergency Government Office, Wood County Court House. Talk-in on 146.79 for entry into the building. Net on Sundays at 8:00 p.m. on 146.79.

The Test Point



Amateur Radio Examination Locations
and Schedules in the Wisconsin Area

August 12, 1995	Marshfield, WI
	Northwoods Hamfest
August 12, 1995	Redgranite, WI
August 12, 1995	Mukwonago
August 16, 1995	West Allis, WI (MRAC)
August 19, 1995	Loves Park, IL
August 26, 1995	Wauwatosa, WI (MRAC)
August 26, 1995	Tomahawk, WI
September 2, 1995	Oak Creek, WI (SWAT/MRAC)
September 2, 1995	Racine, WI
September 9, 1995	Madison, WI
September 9, 1995	Redgranite, WI
September 10, 1995	Dubuque, IA
	Dubuque Hamfest
September 20, 1995	West Allis, WI (MRAC)
September 16, 1995	Loves Park, IL
September 30, 1995	Wauwatosa, WI (MRAC)
September 30, 1995	Tomahawk, WI
October 7, 1995	Racine, WI
October 7, 1995	River Falls, WI
October 7, 1995	Oak Creek, WI (SWAT/MRAC)
October 14, 1995	Madison, WI
October 14, 1995	Redgranite, WI

Badger State Smoke Signals

Amateur Radio Education and Information

CHAIRMAN: Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. Telephone (608) 742-3560.

EDITOR: Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913. Telephone (608) 356-4031.

TREASURER: Jim Decker, WB9UQT, P.O. Box 337, Baraboo, WI 53913-0337.

CONTRIBUTING AUTHOR: Richard R. Regent, K9GDF, 5003 South 26th Street, Milwaukee, WI 53221.

Subscriptions

1 year	(12 issues)	\$12.00
2 years	(24 issues - save \$2.00)	\$22.00
3 years	(36 issues - save \$4.00)	\$32.00

Special club package reduced rates are available. For information, contact Ken Ebner, K9EN.

When to Send It

The closing date for each issue is the first of the month for the next month's issue. For example, the closing date for the June issue is May 1.

The only exception is for participating clubs. Participating clubs are requested to send their material no later than FIVE DAYS after the club's meeting. For example, if a club meets on the 4th of the month, the material should be sent no later than the 9th of that

month. This material is to be sent to the Editor.

Where to Send It

Address changes and corrections should be sent to Ken Ebner.

Editorial material, photographs, feature articles, display ads, and exchange papers should be sent to Jim Romelfanger.

Inquiries about advertising should be directed to Ken Ebner.

Swapfest information should be sent to Ken Ebner. Swapfest ads should be sent to Jim Romelfanger.

Subscriptions should be sent, with check or money order, to Jim Decker.

Conditions for Reprinting or BBS Posting Material from Badger State Smoke Signals

Permission is hereby granted to reprint articles or posting articles on radio or telephone bulletin boards from *Badger State Smoke Signals*, providing credit is given to the original author, publication in which the article first appeared, and to *Badger State Smoke Signals*. **THIS CREDIT IS MANDATORY, AND NO MATERIAL MAY BE PRINTED OR POSTED UNLESS IT IS GIVEN.** This newspaper is produced by volunteer Radio Amateurs, and is non-profit. This newspaper is mailed from Portage, WI 53901. *Badger State Smoke Signals* is incorporated as a Wisconsin non-stock, non-profit organization.

Editorial Disclaimer

The opinions expressed in editorials, guest editorials, columns, articles, and letters from readers are the opinions of the authors only, and do not, unless otherwise stated, express or imply endorsement by *Badger State Smoke Signals*, or by any other individual or organization.

October 18, 1995 West Allis, WI (MRAC)
 October 21, 1995 Loves Park, IL
 October 28, 1995 Wauwatosa, WI (MRAC)
 October 28, 1995 Tomahawk, WI
 November 4, 1995 Racine, WI
 November 4, 1995 Oak Creek, WI (SWAT/MRAC)
 November 4, 1995 Menomonie, WI
 November 11, 1995 Marshfield, WI
 November 11, 1995 Madison, WI
 November 11, 1995 Redgranite, WI
 November 15, 1995 West Allis, WI (MRAC)
 November 18, 1995 Dubuque, IA
 November 18, 1995 Loves Park, IL
 November 25, 1995 Wauwatosa, WI (MRAC)
 December 2, 1995 Oak Creek, WI (SWAT/MRAC)
 December 2, 1995 Racine, WI
 December 2, 1995 River Falls, WI
 December 2, 1995 Stevens Point, WI
 December 9, 1995 Madison, WI
 December 9, 1995 Redgranite, WI
 December 20, 1995 West Allis, WI (MRAC)
 December 16, 1995 Loves Park, IL

Monthly, 1st Sat. Racine, WI
 (except January, July & August)
 Monthly, 1st Sat. Oak Creek, WI (SWAT/MRAC)
 (except May, June, July & August)
 Monthly, 2nd Sat. Madison, WI
 Monthly, 2nd Sat. Redgranite
 Monthly, 3rd Wed. West Allis, WI (MRAC)
 Monthly, 3rd Sat. Loves Park, IL
 Monthly, Last Sat. Wauwatosa, WI (MRAC)
 (except December)
 Monthly, Last Sat. Tomahawk, WI
 (January thru October only)
 Quarterly Marshfield, WI
 (Second Saturday every third month.)

Many Swapfests/Hamfests offer exam sessions. If not shown above contact the sponsoring club in the Swapfest column on page 2.

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Some examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL. Send a 32c/ SASE if you request one from the ARRL. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$5.90 payable to "ARRL/VEC".

The FCC now requires applicants to show their ORIGINAL AMATEUR LICENSE or CSCE to the VEC. You must also have two good copies of your license or CSCE. A copy of your license or CSCE must be attached to your FCC form 610 and most VEC want a copy for their records. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE RADIO AMATEURS' CLUB (MRAC/VEC) OAK CREEK, WI (SWAT-MRAC/VEC)

FIRST SATURDAY DATES (No exams June, July or August. May exam on 2nd sat at 1:00 p.m.): 3:30 p.m. at 6560 S. 27th St., Oak Creek, WI. (2 -blocks south of College.) (MRAC fee \$5.00)

THIRD WEDNESDAY DATES: At 6:30 p.m. Manor at Park, 3023 S 84th St., West Allis, WI.

LAST SATURDAY DATES (except December): 9:00 a.m. at 7500 W. State St., Wauwatosa S&L, lower level, Wauwatosa, WI.

For Additional Information Contact; Jack Krause, (414) 774-6999 or call (414) 466-HAMS (Answering Machine) or write MRAC, 1737 N. 116th St., Wauwatosa, WI 53226.

Bring along your ORIGINAL license, CSCE and two (2) good quality photocopies, plus two forms of identification, such a driver's license, etc. Also required is \$5.00 for the exam fee. WALK-INS are welcome. To register in advance, use a post card:

print the grade of license you are applying for, and your name, address, and telephone number. Send the card to MRAC/VEC, c/o Jack Krause, W9JK, or Les Peterson, W9YCV at the addresses shown above.

BADGER EXAMINERS (BE) - MILWAUKEE
 Amateur exams: 1:00 p.m. to 4:00 p.m.
 Commercial exams: 9:00 a.m. to 12:00 noon.

Unless otherwise noted at WMVS-TV studios, MATC Downtown campus in the C building. The address is 1036 N. 8th Street, Milwaukee. Enter at the North West entrance of C Building. Walk-ins are welcome. To register in advance, send a post card with your name, test or tests you wish to take, date you wish to take., your call sign, address and telephone number to Badger Examiners, Gary J. Sharbuno, WI9M, 5119 W. Willow Rd., Brown Deer, WI 53223. Telephone (414) 355-0237.

Also available FCC General Radio Telephone Commercial exams. Fees are \$5.90 for the Amateur Radio exams and \$35.00 for the commercial exams.

MADISON, WI

VE exams are held in Madison every second Saturday morning (September through May) of the month at 8 a.m. They are held at the operations building of the Madison Metropolitan Sewerage District at 1610 Moorland Rd. To get there take the Beltline (Hwy 12 & 18) to South Towne Drive. Go south 8/10 mile till South Towne Drive makes a bend and becomes Moorland Rd. and enter at gate.

You should bring a picture ID, your original licence and a copy of your licence. For exams beyond the novice tests, bring a check for \$5.90, made out to the ARRL/VEC. If the special 610 form with the medical exemption is required, contact me beforehand to obtain one. No appointments are necessary to take exams. For further questions, please leave a message on the mailbox or phone me at (608) 832-6631.

Mark Jenks, NZ9B

RIVER FALLS, WI

Held in the church basement at the United Methodist Church, 127 South 2nd St., River Falls, WI. Contact: Chuck Kelly, KA9YRV, 234 W Cascade Ave., River Falls, WI 54022.

REDGRANITE, WI (W5YI VEC)

Test sessions are held in Redgranite on the second Saturday of each month, at the Civic Center, 202 Pine River rd., just off Highway 21. Testing begins at 9:00 a.m. Breakfast meeting at 8:00 a.m. at the Curve on Highway 21 prior to testing session. All Amateurs are welcome at the breakfast. Contact Terry Lynn Witt, AA9BA, 9145 Ivy Lane, Berlin, WI 54923.

RACINE, WISCONSIN - ARRL/VEC

Monthly - first Saturday, except January, July, and August.

Monthly exams are given 9:00 to 11:00 a.m. at the Red Cross Building, 4521 Taylor Avenue, Racine. Walk-ins are permitted.

Inquiries and registrations should be directed to William Firchow, Jr., NW9P, 1912 27th Street, Kenosha, WI 53140, telephone (414) 658-8390.

TOMAHAWK, WI

Last Saturday of every month. Jan. thru Oct.

Tomahawk Volunteer Examiners (ARRL/VEC). Tomahawk, WI. No preregistration required, but appointment would be appreciated. Registration at 8:30 a.m. and testings starts at 9:00 a.m. For location or other information, inquire on 145.43 MHz. repeater or contact: Terry Collins, KB9AUP, W6564 Highway 8, Tomahawk, WI 54487. Telephone (715) 453-4633.

STEVENS POINT, WI

Contact: Joe Larson, N9JW. (715) 344-1182.

APPLETON, WI - ARRL/VEC

MANITOWOC, WI (HAMFEST)

KAUKAUNA, WI (HAMFEST)

Conducted by the Fox Cities ARC VE team. All test session in Appleton are held at James Madison Jr. High, 2020 S. Carpenter Street. Candidates check in between 8 and 9 a.m. with testing starting at 9 a.m. No walk-ins after 9 a.m. Contact George R. Croy, W9MDP, 2113 Twin Willows Drive, Appleton, WI 54914. (414) 730-0967.

MENOMONIE, WI

The Menomonie VEC will be sponsoring exams from 9:00 to 11:30 a.m. at the UW Stout Communication Center, 820 South Broadway, Menomonie, WI. Use the

north entrance. Walk-ins only. Contact Jim Ley, NX9F. Work: (715) 232-1397, Home: (715) 235-3998.

MARSHFIELD, WI (ARRL/VEC)

Sponsored by the Marshfield Area ARS. Held at St. Joseph Hospital, 611 St. Joseph Ave., in the 1 West classroom located adjacent to the Westwood Cafeteria on the main floor of the hospital. Use the main entrance or any other entrance and follow the signs to the cafeteria. Registration starts at 8:30 a.m. with testing starting at 9:00 a.m. Talk in on the 147.18 Marshfield repeater. Walk-ins welcome. Contact: Walter Friant, WBOKIN, 2310 Wallonie Drive, Marshfield, WI 54449 (715) 387-3870.

GREEN BAY, WI (ARRL/VEC)

Contact N9NOF, Keith Summers, 918 Bluebird St., De Pere, WI 54115. (414) 336-6087, after 4:00 p.m.

FOND DU LAC, WI

Sponsored by the Fond du Lac Amateur Radio Club. From 9:00 a.m. to Noon at the Community United Methodist Church located at 701 Minnesota Ave., in North Fond du Lac, WI. All level tests, walk-ins welcome. Contact: Doug Schultz, N9EZP, (414) 992-3088.

MUKWONAGO

August 12

The Kettle Moraine Exam Team will be having regular exams from 9:00 a.m. to noon on the Second Saturday of the month at Laflin Lodge in Mukwonago. Park on Highway 83 just south of Highway ES behind Horn Hardware. Testing is in the basement of the Masonic Lodge. No smoking.

CEDARBURG, WI - ORC HAMFEST

EAU CLAIRE, WI - ECARC HAMFEST

GREEN BAY, WI - ARES HAMFEST

KAUKAUNA, WI - SWAPFEST

MANITOWOC, WI, LAKESHORE HAMFEST

MARSHFIELD, WI - HAMFEST

OAK CREEK, WI - SMARC HAMFEST

RACINE, WI - BIG BOY TOY SHOW

RHINELANDER, WI - NWARC SWAPFEST

ROCKFORD, IL - RARC HAMFEST

ROTHSCHILD, WI - WVRA HAMFEST

SOUTH MILWAUKEE, WI - SMARC HAMFEST

STEVENS POINT, WI - CWRA SWAPFEST

WAUKESHA, WI - KMRA SWAPFEST

WAUKESHA, WI - MIDWINTER SWAPFEST

DUBUQUE, IA - HAMFEST

See the Swapfest column for additional information and contact persons.

GREAT RIVER AMATEUR RADIO CLUB

DUBUQUE, IOWA - ARRL/VEC

The Great River Amateur Radio Club VEs are now field stocked, which means retests can be given immediately.

Exams are held at 9:00 am at the Central Fire Station, 9th and Central in Dubuque. Use the basement entrance on 9th street. For more info, contact: Carl Clark, NOKAX, 145 Delicia Drive, Dubuque, IA 52001. Or call Carl at 319-557-9149. Talk-ins are on the 147.84/24, 147.63/03 and 146.295/895 repeaters.

LOVES PARK, IL

Third Saturday of every month. Northern Illinois Volunteer Examiners (W5YI VEC). Held at North Suburban District Library, 6340 North Second St. (Hwy. 251), Loves Park, IL. Contact: Dennis G. Eksten, W9SS, (815) 877-6768.

MINNESOTA TEST INFORMATION

From The Ground Wave, Saint Paul Radio Club.

Saint Paul Radio Club (SPRC)

Contact: Jay Bellows, KOQBE (612) 222-7253

Test Site: St. Luke School

1065 Summit Ave.

St Paul, MN

(Parking & entrance in back)

TESTING: First Saturday of the month, 8:30 a.m.

Anoka Amateur Radio Club (AARC)

Contact: Tom Cunningham, N10H (612) 537-2649

Test Site: Blaine City Hall, Blaine MN

TESTING: Second Saturday of the month, 9:00 a.m.

Bloomington Amateur Radio Club (BARC)

Contact: Jerry Jensen, WT0W (612) 888-6187

Test Site: Creekside Community Center

98th & Penn Avenue S

(continued on page 14)

Wisconsin Nets Association Ltd.

Art Evans, KA9KLZ, Secretary • 213 North Jefferson • Cuba City, WI 53807

Section Manager's Notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

Hayward Hamfest is September 2, N9UPC for details.

Amateur Radio Public Awareness Day is September 16.

Activity of the month: Plan on participation in October Simulated Emergency Test, October 21-22. Contact local Emergency Coordinator.

Obtain November Sweepstakes logs from ARRL HQ. Make available at October meeting. Encourage club competition in Sweepstakes: CW, November 4-6; phone, November 18-20.

Exams: September 2 Oak Creek and Racine; September 9 Madison and Redgranite; September 16 Appleton; September 20 West Allis; September 30 Wauwatosa, Onalaska and Tomahawk.

Bay Area Wireless Association serves Marinette and is ARRL affiliated club.

Adams County ARC has 39 members, including 12 married couples, also has five members named Jim and three named Debbie.

Wisconsin Nets

Net	WNA	Freq.	UTC	CDT	Mgr.
BWN	Yes	3985	1100	0600	W9AYK
BEN	Yes	3985	1700	1200	KE9VU
WSBN	Yes	3985	2230	1730	K9UTQ
WNN	Yes	3723	2300	1800	KA9FVX
WSSN	Yes	3645	2330	1830	N9BDL
WIN/E	Yes	3662	0000	1900	WB9ICH
WIN/L	Yes	3662	0300	2200	W9NGP
NWTN	Yes	34/94	2330	1830	NS9Q
(Rhineland area)					
RCRA	No	01/61	2330	1830	KA9OMC
(Mondays CDT) (Menomonie Area)					
Gr. Bay	No	72/12	0145	2045	WB9NRK
(Green Bay Area)					
ARES	No	4.65/5.25	0100	2000	
(South East/South Central Wisconsin)					
RACES	No	3993.5	1300	0800	WA9OAY
(LSB Sunday)					

Beloit ARC will be ARRL affiliated for 25 years on September 27th.

Four Lakes ARC programs: September 5 QRP radios and operating; September 19 SAREX and WUPPE.

Let me know if you would like a free list of 120 Wisconsin nets or 100 clubs.

Sorry to report Silent Key K9IKE.

Thought of the month: "The hidden flaw never remains hidden." □

18th Annual Badger Weather Net Picnic: Y'all Come! Be There!

On Sunday, August 20, 1995, the Badger Weather Net Picnic will be held at the St. James Church Retreat in Shawano.

Since we have invited the members of the WNA, the picnic itself will end at 1 p.m. so the WNA can hold its meeting. This will be in lieu of the regular September WNA meeting.

Bring your own table service, drinks, and food to cook (if desired), and a dish or something to pass. We are a hungry bunch, so bring *lots!* KB9GO always brings LOTS of sweet corn.

Once again, we ask you to bring a \$5.00 donation (per family) to cover the cost of renting the retreat, as well as covering mailing costs and "bribe money."

The Shawano Radio Club has once again offered to let us use their repeater for talk-in. The frequency is 145.35, - offset.

If you plan to bring a camper for an overnight (or two), be sure to let the caretaker know in advance (see below). The cost is \$7.00 per night, which includes electric hookup.

With talkin, you should have no trouble locating the retreat's location, but, to help further, there will also be signs along the road. Mike Jesse, KF9ZG (ex-KA9VFP), has made all arrangements, and assures us that cooking facilities, including grills, are available if needed. There is also covered space available in case the weather is bad.

For more info, contact: Al Krueger, Caretaker, W1973 Sunset Circle, Shawano, WI 64166, phone (715) 526-3462. You may also contact Mike Jesse in Shawano at (715) 526-3462; Jim Merrill, W9AYK, in Oconomowoc at (414) 567-6573, or Jim Caldwell, WB9YPY, in Rhineland at (715) 362-2517.

HF Hamming from the Great Circus Train

Continued from front page

strength, with no regard given to SWR. That was dealt with later with a Drake MN-2000 transmatch. Sherm Carr, W9NGT, provided valuable and correct information to get the antenna to work properly ("If you set it up this way, it WILL work!") He was correct. Ken Ebner, K9EN, Al Johnson, AA7CS, Bob King, KA9GNY, and Don Evenson, K9JYX, all worked to prepare the cable, make adjustments, give the antenna a couple of "dry runs", and get the antenna mounted on the train (see photo).

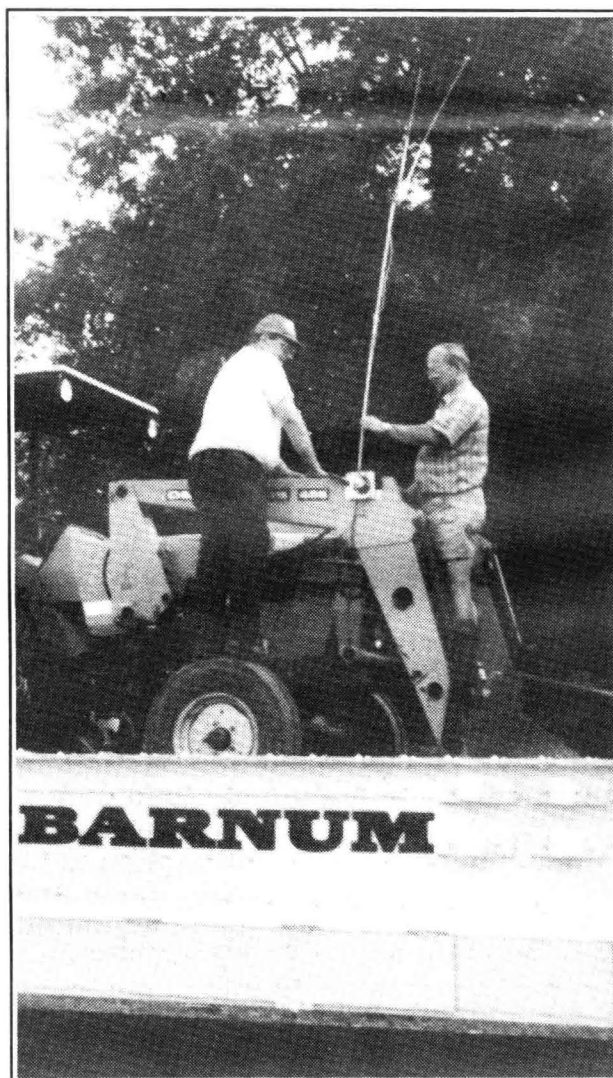
The rig used was a venerable TS-520S. Even with the poor band conditions we encountered on both days, we could work anyone we could hear. For such an "unorthodox" antenna mount, the Hustler mobile antenna with two resonators really played very nicely.

Halper was a helper, too; George Halper, W9SUF, did some chauffer chores at the Baraboo end of the operation, along with some other chores. Both he and Bob, KA9GNY, did some photography, and Maury, W9FBC, did some video taping. I hope I did not omit credit to anyone else who should be listed but may have been missed.

Thanks also to the Milwaukee County ARES crew: Bob Goldstein, K9KJT, Jack McLeland, W9ATK, and Tom Kucharski, KA9EWJ.

Important logistic support was provided by Ron Armstrong, WB9WRW, who drove the always-near chase van, filled with spare parts and equipment for both the VHF and HF stations.

The Baraboo 146.88 repeater apparently heard about Murphy's Law and chose the day before the train's journey to go down, reportedly the result of a power supply failure. The Milwaukee ARES crew usually uses that system for the first part of the



Al Johnson, AA7CS (left), and Don Evenson, K9JYX, tighten the C-clamps to be sure the 20/40 meter Hustler mobile antenna is secure in its location on a Deutz tractor. It stayed right there.

journey. They were able to get through to Milwaukee on the Delafield 146.82 system most of the time.

For those who worked the HF station and are waiting for their certificates: *patience, please!* They are being designed and will be produced by Don, K9JYX. They will be worth the wait.

The train's route is a bit circuitous. Please take a look at the map on page 7. It's routed that way to give the most people possible a chance to see it "in person." We all hope you did. If not, we hope we worked you. If we missed you on the air this time, hang on until 1996!

- Jim Romelfanger, K9ZZ

News Briefs

- If you are anxiously awaiting a brand new (first) call sign, you may call ARRL at 800-326-3942, between 7 a.m. and 3 p.m. Central Time, to easily and quickly find out the status of your license. Please wait at least seven days after your exam before calling.

- The new ARRL North American Repeater Atlas is out and features repeater maps for every US state, Canadian province, Mexico, Central America, and the Caribbean! (Dealers have it, or it's available direct from ARRL Headquarters.)

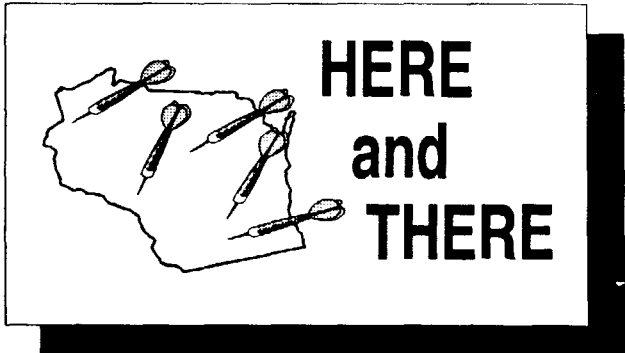
- The ARRL Letter, 7/11/95

ELMER



SEWFARS SWAPFEST

Ham Radio • Electronics • Computers
Southeastern Wisconsin FM Amateur Repeater Society, Inc.
146.820 • 145.070 • 444.125
SUNDAY, MARCH 10, 1996 • WAUKESHA COUNTY EXPO
CENTER ARENA • WAUKESHA, WISCONSIN
Mail S.A.S.E. • Make checks payable to SEWFARS
P.O. Box 102, Delafield, WI 53018
Phone (414) 789-1034 • Talkin 146.820



Fines for 4 Amateurs

Four amateurs cited by the Federal Communications Commission for malicious interference on the 2-meter band have had the amounts of their monetary forfeitures adjusted.

The four, all in the New Orleans area, were cited for transmissions made in the spring of 1993. In September 1993 all four received Notices of Apparent Liability from the FCC's New Orleans office. The FCC, after reviewing responses from all four, then issued Notices of Forfeiture in November 1993, all in the amount of 2000 dollars. All four appealed the NOFs.

While these appeals were pending, the Court of Appeals for the D.C. Circuit vacated the forfeiture guidelines that the New Orleans Field Office had followed in the forfeitures, and on reconsideration, the FCC's Compliance and Information Bureau reduced them.

On July 10, 1995, the FCC issued Orders in all four cases, noting that the cases were based on information provided by the Amateur Auxiliary, and saying that "use of amateur volunteers for the purposes of monitoring violations in the amateur service is permitted by the (Communications) Act. In fact, the amateur radio community has distinguished itself for its self policing operations."

The FCC reduced the fine for Joseph F. Richard III, N5JNX, from 2000 dollars to 1000 dollars, rejecting his contention that tape recordings used by the FCC in the case are "inaccurate or misleading."

Vernon Paroli, KA5OWW, had his forfeiture amount reduced to 700 dollars, based on his claim of being financially unable to pay the 2,000 dollar forfeiture originally assessed.

The forfeiture amount for Will T. Blanton, N5ROC, was reduced from 2,000 dollars to 1,000 dollars. That of John B. Genovese, WB5LOC, was lowered to 500 dollars, because of the shorter duration of his transmissions.

- ARRL Bulletin ARLB068, 7/13/95

Amateur Radio Call Sign Update

The following is a list of the FCC's most recently issued call signs as of July 1.

District	Group A Extra	Group B Advanced	Group C Tech/Gen	Group D Novice
0	AA0YM	KG0YF	++	KB0TFM
1	AA1NW	KE1CJ	N1VMF	KB1BSX
2	AA2YB	KG2DH	++	KB2VEV
3	AA3MC	KE3UD	N3VSJ	KB3BJX
4	AE4KB	KT4AM	++	KF4BKY
5	AC5DP	KK5QZ	++	KC5POU
6	AC6OK	KO6XW	++	KE6VTW
7	AB7LI	KJ7PS	++	KC7MBY
8	AA8UB	KG8SR	++	KC8AIK
9	AA9PJ	KG9DI	++	KB9KZC
N. Mariana	KH0S	AH0AW	KH0ED	WH0ABC
Guam	WH2P	AH2DA	KH2OF	WH2ANM
Midway	++	AH4AA	KH4AG	WH4AAH
Hawaii	++	AH6OD	++	WH6CWI
Amer. Samoa	AH8O	AH8AH	KH8CJ	WH8ABB
Alaska	++	AL7QC	++	WL7CNX
Virgin	WP2R	KP2CF	NP2IG	WP2AHY
Puerto Rico	++	KP4ZU	++	WP4NAB

++ All call signs in this group have been issued in this area.

- ARRL Bulletin ARLB070, 7/14/95

Vanity Call Sign Fee Set

The Federal Communications Commission has adopted a fee for amateur vanity call signs of three dollars per year, to be collected for the entire 10-year term at the time of application for such a call sign.

The beginning date for these fees is September 18, 1995. These fees are the result of a mandate from Congress that the FCC collect fees to recover some of its regulatory costs.

The FCC said that the revenue requirement for

Adam Weyhaupt, N9MEZ, Named 1995 "Young Ham of the Year"

(Hicksville, New York) — Adam Weyhaupt, N9MEZ, a 15-year-old Amateur Radio operator from Alton, Illinois, has been named the 1995 "Young Ham of the Year," according to Award Administrator Bill Pasternak, WA6ITF. The award is sponsored jointly by Pasternak's "Amateur Radio Newline," Yaesu USA and CQ magazine.

Weyhaupt has demonstrated extraordinary skills in communication, organization and leadership during the course of a major disaster and a major Amateur Radio public service event. During the Midwest floods of 1993, Adam, then age 13, was in charge of scheduling hams for round-the-clock emergency communications and also acted as net control for the disaster communications net in his area. The following year, Adam was a key organizer of amateur communications for the U.S. Olympic Festival, held in St. Louis, Mo. This was a 15-day event comprised of 35 sports events held at 25 different locations spaced up to 90 miles apart. Currently, he is the Net Manager of his local Amateur Radio Emergency Service (ARES) net and a net control and weather spotter for the National Weather Service's Skywarn network. He also edits a regional Skywarn newsletter.

Weyhaupt was nominated by David Cornell, K9BO, of Elsah, Illinois. He is entering his junior year at Marquette Catholic High School in Alton this fall, and hopes to become a meteorologist — a choice he says was greatly influenced by his Amateur Radio activities and his participation in Skywarn. Adam lives with his parents, Gil (KA9YAW) and Teresa Weyhaupt, and two younger sisters, Ann and Ellen. He has been a ham radio operator since 1991.

As "Young Ham of the Year," Weyhaupt will receive — courtesy of Yaesu USA — a major Amateur Radio equipment gift and a free trip to the 1995 Huntsville (AL) Hamfest on Aug. 18-20, where his award will be formally presented. CQ will treat Adam to a VIP tour of Spacecamp Huntsville and a variety of CQ products.

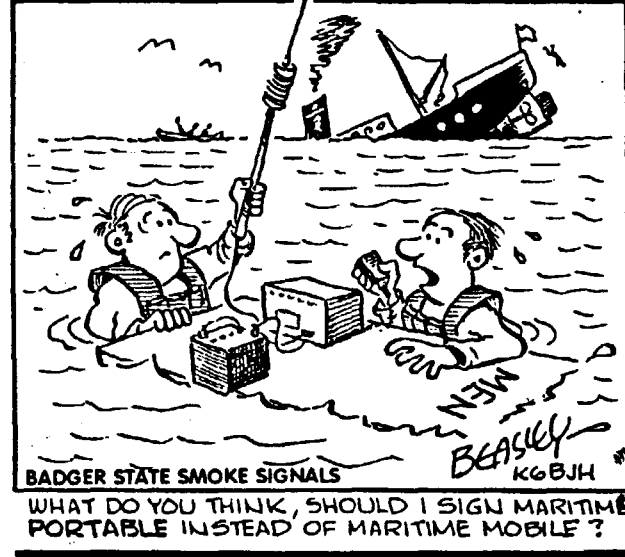
Two additional finalists for the "Young Ham of the Year" award were 18-year-old Bryce Duncan, N0YDI, of Red Wing, Minnesota, and Toby Metz, KB7UIM, a 14-year-old from Meridian, Idaho.

CQ Publisher Richard Ross, K2MGA, noted that "the accomplishments of these young people, and their willingness to help others, bodes well for the future, both of Amateur Radio and the youth of our country."

amateur vanity call signs is 840,000 dollar(s) and estimates that it will process 28,000 applications for them.

No start date for applications for vanity call signs has yet been announced, and the necessary FCC Form 610-Vs have not yet been released. These fees apply only to vanity call sign applications, not to any other amateur license transaction.

- ARRL Bulletin ARLB066, 6/30/95



ARRL President Steps Down

On July 1, 1995, American Radio Relay League President George S. Wilson III, W4OYI, submitted his resignation from the office he has held since January 1992. Mr. Wilson, who suffered a stroke on February 11, presently is in a rehabilitation hospital in Evansville, Indiana.

Mr. Wilson said that while he has made progress in rehabilitation, his medical condition prevents him from traveling and from devoting the energy required to perform the duties of the office for the remainder of his term, which expires at the January 1996 meeting of the ARRL Board of Directors. He expressed his appreciation to the members of the Board for the opportunity to serve.

"The League has my undying love and support," he said.

In accordance with the ARRL By-Laws, First Vice President Rodney J. Stafford, KB6ZV, has been performing the duties of president since Mr. Wilson became incapacitated in February. With Mr. Wilson's resignation, Mr. Stafford becomes president for the remainder of the term. The next ARRL vice president in the order of succession, Jay A. Holladay, W6EJJ, becomes first vice president.

Upon completion of the rehabilitation program in Evansville, Mr. Wilson will return to his home in Owensboro, Kentucky.

- ARRL Bulletin ARLB067, 7/5/95

Balloon Launches Planned; Schedule Not Finalized

A short note from Joe Mayenschein, WB9SBD, Hillsboro, tells BSSS that one or two balloon-carried Amateur Radio (BCAR) packages will be launched. At press time, no further details had been received. It is thought that one package may be designed to reach an altitude of 120,000 feet above the earth's surface.

FCC Closes Field Office

The Federal Communications Commission has consolidated the functions and staff of its Baltimore field office of the Compliance and Information Bureau (CIB) with the Laurel Field office in Columbia, Maryland.

In a press release, the FCC said that in the past the two offices served different purposes, and as the result of FCC restructuring the two offices performed the same activities. The FCC said that since

Please turn to page 9

BADGER STATE SMOKE SIGNALS

Subscription Form • Regular Individual Subscription Rates

1 Year: \$12.00 • 2 Years: \$22.00 (save \$2.00) • 3 Years: \$32.00 (save \$4.00)

PLEASE PRINT!

Name: _____ Call Sign (if any): _____

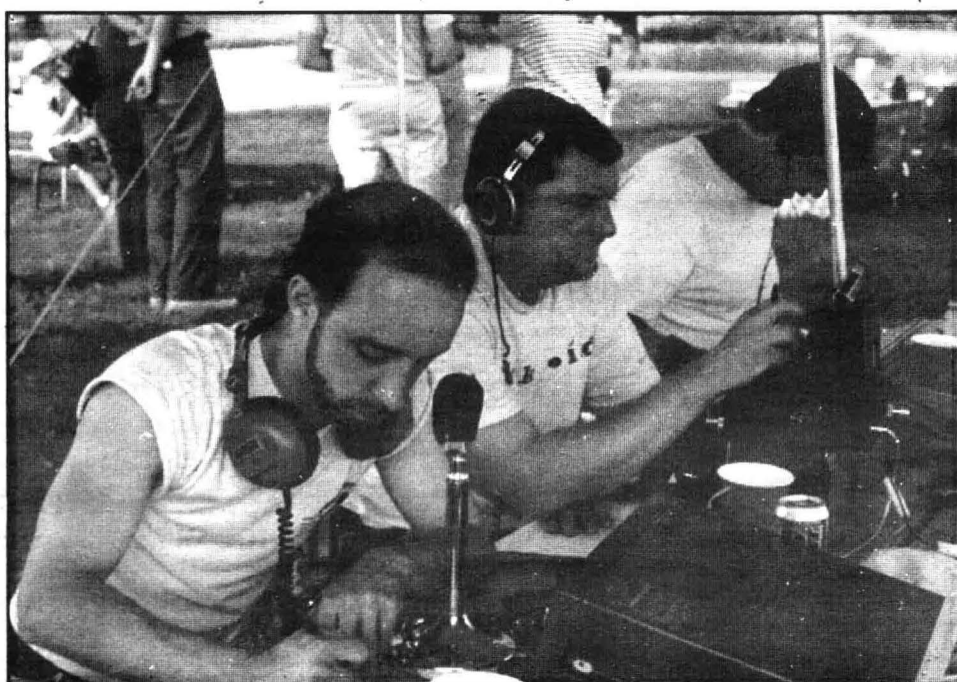
Address: _____ City: _____ State: _____ ZIP: _____

☐ 1 Year ☐ 2 Years ☐ 3 Years ☐ New ☐ Renewal

Send this form, with your check or money order, to Jim Decker, WB9UQT, Treasurer, P.O. Box 337, Baraboo, WI 53913-0337. Please do NOT send cash!

August 1995

Field Day 1995 • Yellow Thunder Amateur Radio Club WB9FDZ • Class 2A • Owen Park, Columbia County



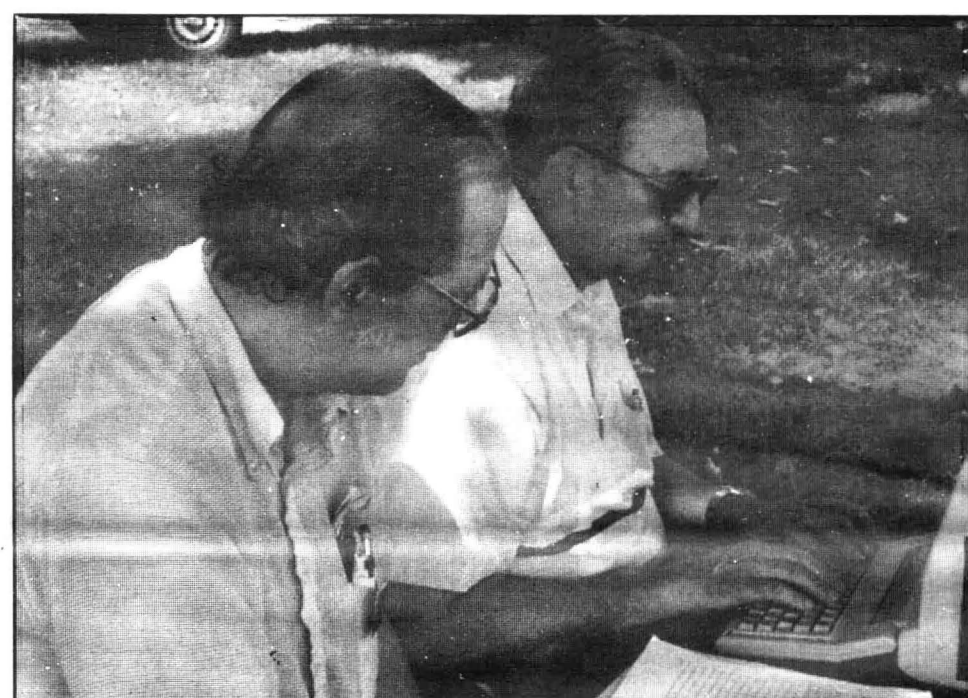
The Novice/Technician station was staffed by Domenic Bianco, KA9QFK (six meter SSB and 432 MHz); Wayne Burgess, N9UDX (2-meter SSB); and Bill Hommell, KA9QFJ (ten meter SSB).



Tom Harrison, N9PQJ, operated 2 meters FM. From the club's high location, it's almost possible to make one's own band opening.



Determination shows clearly on Steve Schwoegler's (WB9RNL) face as he tunes and digs for the weak signals.



Making the usual racket on packet were Jim Decker, WB9UQT, and Ken Ebnetter, K9EN.

Field Day 1995

By Richard Regent, K9GDF

Section Manager, Wisconsin Section ARRL
5003 South 26th Street, Milwaukee, WI 53221

Thanks to everyone in Wisconsin who participated in ARRL Field Day, 1995. The weather was great, new equipment was tested and the following FD messages reached me:

Group	Call	Location	Operators/ ARES
AR ARC	KB9JYT	Big Flat	18/?
Bay Area Wireless Assoc.	K0SN	Marinette HS football field	15/0
Calumet ARES	KN9P	Ledge Park Chilton	9/8
Falls ARC	KC9CI	Homestead Hollow Park Germantown	12/7
Fox Valley ARC	W9ZL	Town of Greenville Outagamie Co.	13/5
Ozaukee RC	W9IM	Lazy Daze Campground	25/?
Rock River RC	K9FHI	Berg Co. Park NW Beaver Dam	20/17
Washington Co. ARC	W9SIZ	St. Lawrence Fire Dept. Grounds	13/13
Wisconsin Rapids ARC	W9DQA	M State Tech College	25/25
WK ARC	N9AW	Legion Park Oak Creek	2/8

Of course, there is no guarantee that Field Day messages will actually reach me but, if your group originated a message properly and sent it by packet radio, through the NTS, or by other means, you get credit. Field Day is fun, and everyone can practice important message handling to be prepared for emergency communications.

The West Allis ARC had a *CQ* magazine photographer, carrying professional cameras loaded with film, who got many action pictures during Field Day.

The results of Field will be in *QST* soon. Hope you learned a little more about Amateur communications or enjoyed being with club members this Field Day. □

USED AMATEUR RADIO EQUIPMENT

WE BUY, SELL, AND TRADE

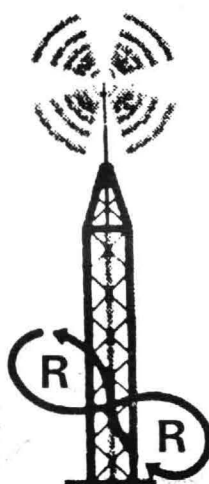
CONSIGNMENTS ACCEPTED

We buy, sell, and repair antique clocks

× Ham Radio gear traded for clocks

× Clocks traded for Ham Radio gear

OUR STOCK CHANGES OFTEN!



RADIO RECYCLERS

Neil Lawton, WK9Q
7730 W. National Ave.
West Allis, WI 53214
(414) 771-7121

Open Monday, Tuesday,
Wednesday, and Friday
from 10 - 5
Saturday 10 - 2

Mail a card with your list
of wants and your phone
number to be added to our
computer data base!



SSB

SELL SWAP BUY

OUR WANT ADS GET RESULTS

ESTATE SALE/WA9PDX

- Mosely TS-33JR with KW traps installed;
- Alliance dual-speed HD-73-1 rotor, new when installed, never used;
- 40-foot self-supporting tower with house brace (base in concrete);
- Approximately 60 feet of RG-8 coax and rotor cable.

Entire tower/antenna/cable package \$150.00 or best offer. You disassemble.

- Aerotron commercial grade 2-meter FM transceiver with mike. 25 watts, 12 VDC. Crystal controlled for one repeater frequency, currently on 146.28/146.88. Very stable and clean. \$10.00. Contact Mrs. Roger Prah, Baraboo, at (608) 356-8106.

FOR SALE: KDK FM-2033 2-meter FM transceiver. \$150.00/best offer. Ken Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. (608) 742-3560.

WANTED TO BUY: Kenwood MC-50 microphone. Also, a mike and cable to fit a Kenwood TR-7400A 2-meter rig. Bob Johnson, WB9EIW, (608) 742-6460.

THERE IS NO CHARGE for publication of non-commercial ads in Sell, Swap, Buy. Ads may be sent either to Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913, or Ken Ebnetter, K9EN, 822 Wauona Trail, Portage, WI 53901. No ads will be accepted by telephone or other verbal means.



Ask Elmer

Q: Why can't I use PC hardware interrupts 2 and 9 together?

A: The first 8 are routed to the second 8 by using IRQ2.

Q: What does LSL stand for?

A: Linked Support Layer. Next question please.

Q: How can I transfer files between two compatible computers?

A: Use the program INTERLNK.EXE, new in version 6.0 of DOS, installed as a device driver in

the CONFIG.SYS file. Connect the computers with a parallel cable, which costs about \$9.

Q: What should be done about the defective Pentium chips?

A: The flaw is only in the math co-processor with numbers out to 16 places. I suggest Intel inactivate the math co-processor and sell them as an SX with \$300 off the price.

Q: Are there several places where DOS can go?

A: There are three places: conventional memory, HIMEM or skip it. But of course without DOS the computer won't run.

Do you have a question or a problem? Ask Elmer! Send your questions (no telephone calls, please) to "Ask Elmer," 5003 South 26th Street, Milwaukee, WI 53221. □

SAREX Hams Help NASA Test Future Radios

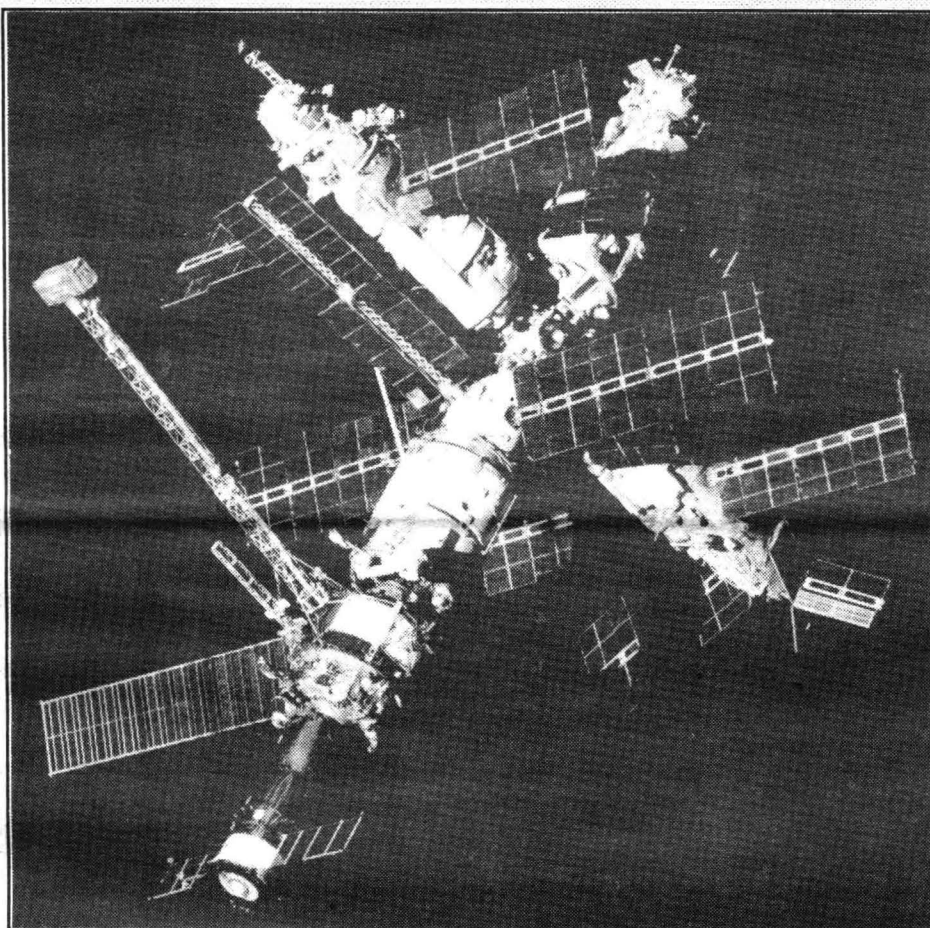
The Space Shuttle *Atlantis* (STS-71) landed in Florida on July 7 after an historic docking with the Russian space station *Mir*. Shuttle Amateur Radio EXperiment (SAREX) activity included evaluation of a new radio set-up for NASA. Mission Specialist Ellen S. Baker, KB5SIX, and Pilot Charlie Precourt, KB5YSQ, conducted SAREX operations using the shuttle's new VHF radio. Early reports indicated that the amateurs made successful contacts with five student groups who had pre-arranged contacts, and made numerous random contacts voice contacts with individual amateurs.

In keeping with the experimental nature of SAREX, volunteers around the world also supported tests to help NASA. The crew made a number of contacts with amateurs using the shuttle-*Mir* VHF radio to test the operational configuration of the radio hardware and antenna. The radio will be used to facilitate at least six more planned *Mir* docking missions.

Pilot KB5YSQ talked about SAREX at the NASA post-landing news conference, and while in orbit the crew shot footage with an "IMAX" camera of him doing a school QSO - "Maybe we'll be in a future IMAX movie!" said ARRL Educational Activities Manager Rosalie White, WA1STO.

SAREX reports and QSLs should be sent to ARRL EAD, STS-71 QSL, 225 Main Street, Newington, CT 06111-1494, USA. Include the following information in your QSL or report: STS-71, date, time in UTC, frequency and mode (FM voice). In addition, you must include an SASE using a large, business-sized envelope if you wish to receive a card.

The Sacred Hearts Academy Radio Club in Honolulu, Hawaii, has volunteered to manage the cards for this mission.



Russia's *MIR* Space Station is backdropped against the darkness of space, as photographed from the approaching Space Shuttle *Atlantis* on June 29, 1995. Five NASA astronauts and two cosmonauts were onboard *Atlantis* as it approached the *MIR*, which had been home for the three-member *Mir-18* crew since March of this year.

- Photo by National Aeronautics and Space Administration

- The ARRL Letter, 7/11/95

FAR Scholarship Winners Named

West Allis RAC, South Milwaukee ARC Give Awards

The Foundation for Amateur Radio, Inc., has announced the 1995 winners for the 55 scholarships which it administers, including those for two Wisconsin Amateur Radio clubs.

WARAC MEMORIAL SCHOLARSHIPS, \$1000 EACH, were awarded to:

- Timothy J. Czerwonka, WO9U, Chetek, WI
- Steven D. Miller, KB9DFE, Spooner, WI
- Karen M. Schneider, N9SVA, Appleton, WI.

SOUTH MILWAUKEE AMATEUR RADIO CLUB SCHOLARSHIPS, \$500 EACH, were awarded to:

- Ervin E. Roman-Bravo, N9YNU, Milwaukee, WI
- Jeremy Charles, N9VHT, Madison, WI
- Michael D. Kaun, N9RNC, Menomonie, WI
- Ray G. Meyer, N9PBY, Port Washington, WI.

These and the other scholarships were open to all licensed radio amateurs meeting the qualifications and residence requirements of the various sponsors.

The Foundation for Amateur Radio is a non-profit organization incorporated in the District of Columbia, representing more than seventy-five clubs in Maryland, the District of Columbia, and Northern Virginia. It is devoted exclusively to the scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

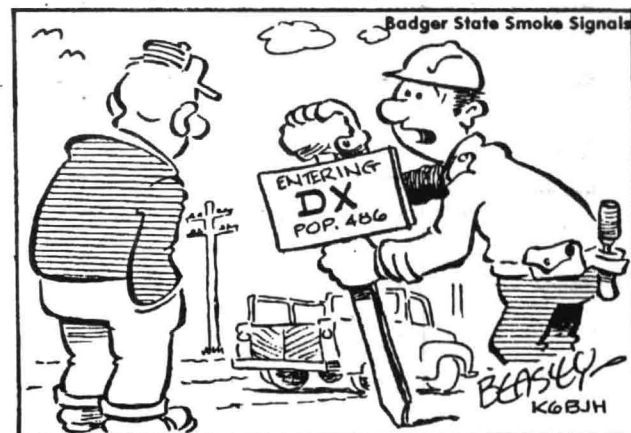
Announcement of the FAR 1996 awards will appear in the March or April issues of the major Amateur Radio publications and selected radio club newsletters.

The address is: FAR Scholarships, 6903 Rhode Island Avenue, College Park, MD 20740.

- From FAR news release

ADVERTISING SALES REPRESENTATIVE NEEDED

Badger State Smoke Signals needs an advertising salesperson. A commission is paid, as are certain expenses. If you are interested, please contact Publisher Ken Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901, or call Ken at (608) 742-3560.



THE MAYOR IS A HAM--- HE CHANGED THE NAME OF THE TOWN SO HE COULD SNAG ALL THOSE CALLING "CQ DX!"

Central Wisconsin Repeater Association
28/88 \$1.00 OFF 34/94

(Annual membership dues \$20/year - Reg: \$10 for dues to 12/31/95)

New members send \$9 with this coupon to:

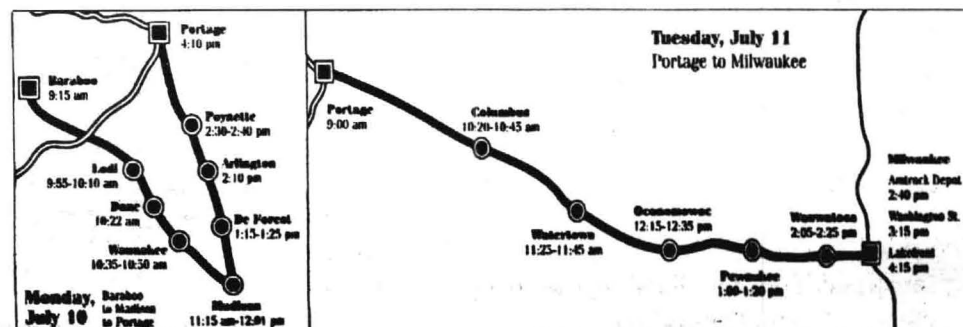
C.W.R.A.

Box 802

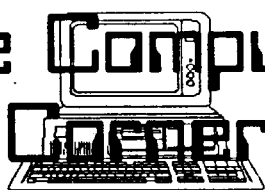
Madison, WI 53701

Include your Call, Name, address, and phone number.

The Roundabout Route of the Great Circus Train



The Computer



By Stan Kaplan, WB9RQR
105 Martin Drive
Port Washington, WI 53074-9654
(414) 284-9346
WB9RQR @ N9PBY.EN63BI.WI.USA.NA
SKAPLAN @ POST.ITS.MCW.EDU

No. 23: HARD DRIVE TYPES

I have written about hard drives before in this series (No. 10 on buying a hard drive, and No. 14 on how they work), but my friend Tom (WB9LNL) suggested that it would be helpful to review the types. A listing of types sounds like alphabet soup: MFM, RLL, IDE, ESDI, SCSI. Furthermore, there are even sub-types: SCSI and Fast-SCSI, IDE and EIDE. Most hams don't care about most technical details and differences between the types; what they want to know is will they work in that old reliable klunker they use for packet? So let us explore that aspect, so you know what to look for at the next swapfest. Even before that, though, a bit about cost.

The July 1995 issue of *Computer Shopper* contained many ads for 540 megabyte hard drives for around \$180. That is no typo - 540 megs for \$180. By the time you read this, the price will have gone lower. Even more astounding, I recently read a statement from an officer of a company that manufactures hard drives indicating that prices to consumers will be about 10 cents a megabyte by January 1996. If true, you will be able to purchase a 1 gigabyte (that translates to 1,000 megabytes!) hard drive for about \$100 within less than 6 months! Wow! One caveat, though. It probably won't work with your old XT. At any rate, keep those cost factors in mind when that guy at the swapfest wants \$50 for that 40 meg drive you have been eyeing.

Also keep this in mind: a hard drive must connect to a controller card inside your computer. If you are replacing an existing hard drive, you MUST replace it with the same type unless you also change the controller card. Thus, if your machine has an MFM drive; you cannot replace it with an ESDI, RLL, and so on (there is one exception to this rule, but we will ignore it). How do you tell what type is in your machine now? Pop the cover and examine the hard drive. Somewhere it will have a manufacturer's name and model number. Then look it up, or if you don't have the resources to do so, drop me a note via packet, snailmail or EMail, and I will be happy to tell you everything you want to know and some things you probably don't, about your drive. You also might be able to deduce the type from the information that follows.

If your machine is an XT, the only ROUTINE choice you have is MFM or RLL. If you happen to come across an 8-bit IDE controller card, you will be able to use an IDE drive, but don't count on it. On the other hand, you might get lucky at the next swapfest.

Here is a listing of the common types of controllers with some hints on their identification based on the type of cables that go from them to the hard drive they control.

MFM (Modified Frequency Modulation), RLL (Run Length Limited) and ESDI (Enhanced Small Device Interface). All three of these drive types are connected to the controller card by two cables, a 20 conductor data cable and a 34 conductor control cable. If there are two drives in the computer, then three cables will be present; a single 34 conductor control cable which will go to one drive and then continue to the second (called a "daisy chain" arrangement), and two 20 conductor data cables, each of which goes to a separate hard drive. As an aside, don't ever fall in the trap of mixing up a 34 conductor hard drive control cable with the similar 34 conductor floppy drive cable. If a twist is present, the floppy drive cables have a seven conductor twist while hard drive cables have a five conductor twist. Take a look; you'll see the twist near the end of the cable.

IDE (Integrated Drive Electronics) is probably

the most popular drive in use today. They are inexpensive and fairly reliable. The card that is used with IDE drives is really not a controller card; the official name for it is an "adapter card", because it serves mainly as a convenient connection between the hard drive and the computer. Essentially all of the controller functions for this type of drive are contained right on the hard drive itself, as suggested by the name. This drive type is connected to the adapter card by a 40 conductor cable; if two drives are present, they will be daisy chained on the same physical cable.

SCSI (Small Computer System Interface, pronounced "scuzzy") is a flopover from Apple Computers, where this interface allowed plugging in several types of devices to the otherwise inaccessible machines (early Apples had no expansion slots). These have either 50 or 68 conductor cables between the drive and the "interface" card.

In summary:

CONNECTION BETWEEN HARD DRIVE AND CONTROLLER/ADAPTER/INTERFACE CARD HARD DRIVE TYPE

At least 2 cables present; 20 and 34 conductor: MFM, RLL or ESDI

One cable, 40 conductor: IDE

One cable, 50 or more conductors: SCSI

Well, that should get you started on your quest. You should be cautioned, however, that even if you replace a hard drive with an exact replacement, it may not work! For example, if you put a Seagate 40 megabyte MFM drive in your XT computer to replace a dead drive of the exact same brand and model, the new one may not work if it was low level formatted in a 286 machine! Frustrating. Indeed, the only way to get it to work is to redo the low level format in your XT. However, once that is done, it should work just fine. □

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From No Code to Know Code

By Dave Kelley, AA7TQ

Reprinted from *AARC OVER*,
Austin, Texas Amateur Radio Clubs

I'm not going to start out by telling you that learning the code is fun. I'm not going to tell you there is an easy way to learn it. But, like just about everything, there is a right way and a wrong way to do something. I hope to give you some ideas that should help you learn the code and get all the way to the top. Like many, you may learn to love the CW mode.

Don't believe it can happen? Listen to the CW bands on any day and compare the number of QSO's going on compared with the phone band. You probably will find more people chirping than yapping.

Here are some points to think about. People all learn differently so use what you think will work for you and discard or modify these ideas for your own use.

Don't learn it at a slow rate, even from the start. If your goal is to get to 20, or even 13 words per minute set your learning speed accordingly. For example, if your goal is 20 then try to copy with a character speed of 22 WPM with a long space between characters. As you start to recognize the letters quicker you can simply close the spacing between the letters until you're at full speed. This allows you to get used to the sound of the characters at this speed. Hearing code at a slower speed later will be easy.

Listen to the SOUND of the characters

Learning code at a higher speed helps you avoid one of the biggest problems we all have when starting out in code. We tend to "count" dits and dabs or visualize the letter on paper with the code next to it (A .-). If you learn code by doing any counting, memorizing code charts, or even thinking about the pattern of the sound you will find those "plateaus" you may have heard about. These are blocks that you'll find at about 10 and 18 WPM. Our minds can do these conversions only so fast.

By learning the sounds of the character we can learn to copy almost automatically. If I were to recite letters to you in English you would be able to write them down without thinking about how to form the letter or even what it looks like. Code should be learned the same way. No conscious conversion processes in between.

NEVER use crutches!

In keeping with the above paragraph, you should stay away from crutches. One that comes to mind that is the worst way to learn code is the Sound = Catchy Phrase = Letter technique. This is where you learn little rhymes that go with each letter. The letter C is "Catch-it Catch-it", like the sound of the C. THIS IS A VERY BAD way to learn the code. Can you imagine using this to

copy at 20 WPM? You'd hear the sound, have to think of the phrase, then think of what letter it was from that phrase and then write it down. Oops, you just missed 5 letters while you were doing all that mental converting.

Learn to drop the pencil from time to time

Some of us can't write at 20 WPM. So, drop that pencil and close your eyes. Listen to the letters and let them form behind your eyelids instead. You'll start seeing whole words there. Then you'll get the hang of hearing complete sentences without forgetting letters as fast as you hear them. Think about this. The only conversion we have really talked about (that's okay) is from hearing the sound to writing it down. If we take away the part about forming the letter on paper our brain has even more time to just listen and comprehend the code .. leaving it time to remember the order of the letters.

People who have learned this can listen to the CW band as easily as they can the phone band. As you tune around, you'll hear what people are saying clearly.

Without the pencil pushing to get in the way your code speed will jump several notches, too. You might find yourself listening to a couple guys or gals talking at 30-35 WPM and copying without much effort. You sure couldn't write it that fast.

Taking the test

Being a VE for many years, I have seen everything in our code sessions. Stress is always present (no matter how many jokes I tell first), and people usually react negatively to stress. You should have a skill level of 2-5 WPM over the actual test you are taking. Your comfort level will be better. If you have heart problems or get sick under extreme stress, let the VEs know.

The code tests are nothing more than a sample of QSOs like you might hear on the air. It sends call letters and information about things like RST, QTH, name, rig, weather and other standard chat stuff. Knowing how we talk on the air can be a big advantage so, if you have a way to receive HF or, even better, if you can get on the air by all means do it.

When taking the test you might want to decide if you want to go for the 100% copy. This might be good for some people. If you copy on paper and know you are doing well from the computer, tapes or on the air then this would be good. If you have learned with the "pencil down" method, you might want to just take notes. When you hear key words, write them down. He has to QRT for lunch, his antenna is a dipole, or he has a schedule with his mother in Botswana. You might write lunch, dipole, mother, Botswana. You can then answer the questions on the multi-choice sheet rather easily. This is not cheating in any sense of the word either. The idea of knowing code at a particular speed means you can comprehend what the information is .. and we are doing that here.

Well, there you have it. I have known many people over the years who have used these key ideas to gain a mastery over the Morse code. Most of them you can meet .. the next time your on the air .. in the CW bands. □

The Birth of K9AEG-5, WIWITT, Wittenberg Node

By Dennis J. Spranger, K9AEG
302 North Hunter Street, Wittenberg, WI 54499

On May 6th, the Wittenberg node became operational. It consists of a 1200 baud 145.71 LAN, running 50 watts into a 6dB vertical at 1300 feet above sea level. Also, a 9600 baud hi-speed backbone beaming WIAPL KB9BYQ-5 connects the node with the already established 9600 baud super-hiway network of eastern Wisconsin.

This node represents a continuation of the 9600 hi-speed network to eventually link northern and southern Wisconsin.

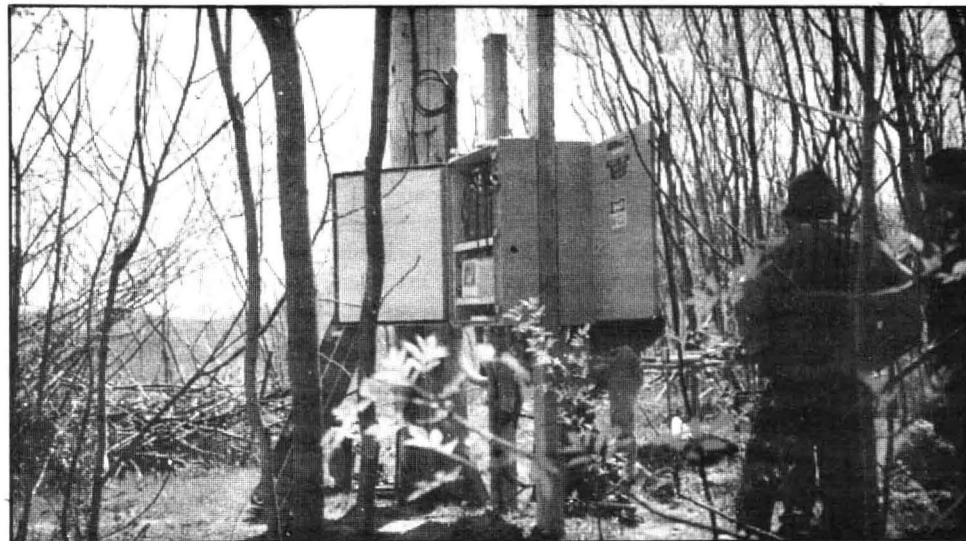
The node was built and installed by just a few area hams, and in nearly record-breaking time. From start to finish, only two months lapsed. Dan, NO9K, and myself, both of Wittenberg, built the site up, consisting of two equipment cabinets: one cabinet for the Motorola radios and TNCs, and the other for the battery backup power supply system. Hence, the node has capability of running many hours without commercial power. Both cabinets are insulated and fan-cooled to help survive the extremities of our Wisconsin weather. The equipment panels are mounted near a 70 foot existing wood pole, where both the vertical LAN antenna and 440 Backbone beam are mounted.

The Motorola radios were tuned and modified by Steve, KE9LZ. Many thanks go to Steve for his expertise on 9600 baud systems, and to Kurt, N9WVD, from Iola, who unfearingly and gracefully mounted and aimed the antennas.

Last, but not least, thanks to Al, KB9BYQ, for coordinating everyone and everything. His telephone bill alone probably makes the national debt look small.

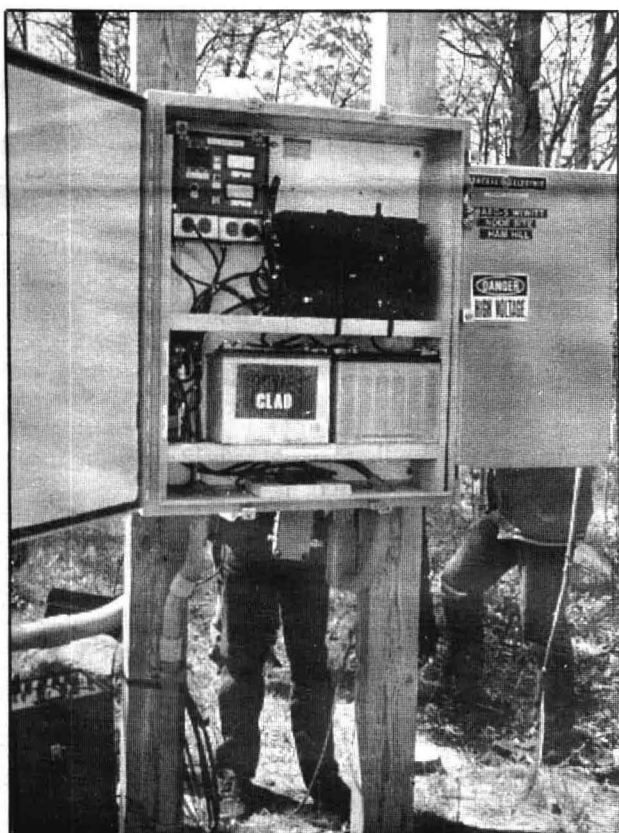


The Wittenberg node installation crew: Dave Chroninger, WB9GBG; Al Van Dynhoven, KB9BYQ; Dennis Spranger, K9AEG; Dan Fuhrman, NO9K; and Steve Mc Donough, KE9LZ. Not shown is Jeff Schuh, KF9TS.



It's in the woods. This is a side view of the node. The two panels are mounted back-to-back. The left panel houses the power supplies, and the right panel contains the transceivers and the TNCs.

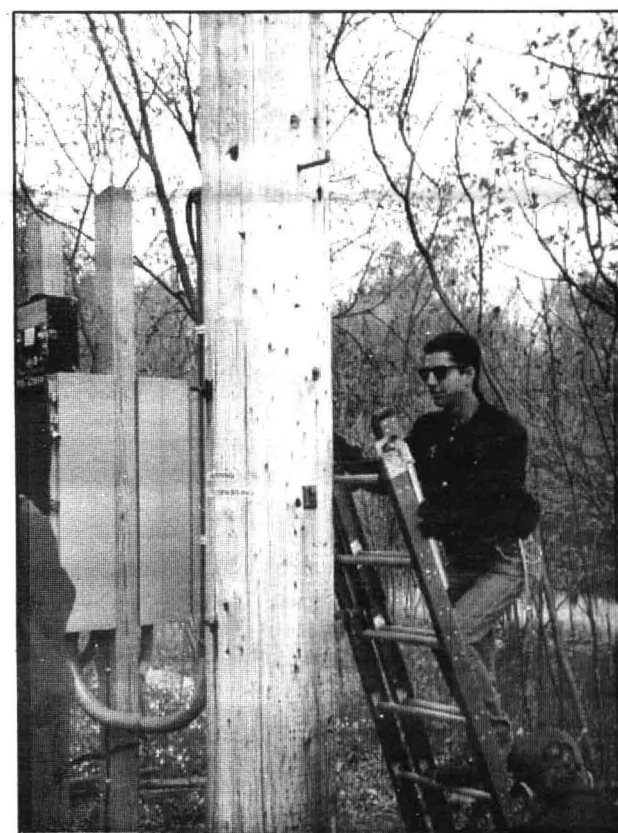
- Photos courtesy Dennis Spranger/K9AEG



The node is powered by 2 70 amp 12 volt batteries. The power supply above them is used to keep the batteries charged for use if commercial power is lost. Cooling is provided by a muffin fan which brings in filtered air; exhaust is through a vent cap on top.



Kirt, N9WVD, ascends the 70-foot pole. The beam antenna is for the 440 MHz, 9600 baud backbone to WIAPL in Appleton; the vertical is for the 145.71 MHz LAN.



Kirt Krause, N9WVD, of Iola, WI, on his way up to do a little antenna work.

HERE AND THERE

Continued from page 5

the offices were only 17 miles apart and served essentially the same geographic area, it was more efficient to consolidate them into a single location.

The new, combined facility is called the "Columbia Operations Center." The staff can be reached at 301-725-3474.

The FCC cited monetary savings in the move, since it owns the Laurel property and was leasing space in the Fallon Federal Building in Baltimore for that office.

- ARRL Bulletin ARLB064, 6/27/95

The Story of the H.I.S. Jeans TV Commercial: Whereizzit?

As I told you in an issue last autumn, I was cast in a television commercial for H.I.S. Jeans. I also said I would run a story about the "shoot." However, the spot has not aired (yet) in this area. It is supposed to run again in some markets in August. Since it hasn't been seen here, the story is on hold. If I need something to fill a lot of space, I'll run it. Otherwise, we will use our space for more impor-

tant news. If the spot airs, here are the basics: It's titled "Cropduster." You'll see a rail road box car with two bums in it. I am the one in the doorway. The scene was shot from inside the box car (a flatbed truck driving down a town road near Hinckley, Illinois, alongside a corn field.) I believe it's in black and white, and it's set in the Depression era. You know, I never liked my face very much until I rented it for \$450.00 for one day. - K9ZZ

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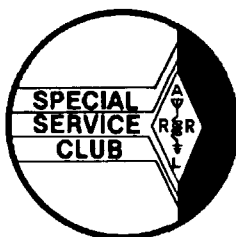
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PARTICIPATING CLUBS AND ORGANIZATIONS

Mancorad Radio Club

Eric Rugowski, WD9IAB, Secretary

P.O. Box 204 • Manitowoc, WI
54221-0204



2-Meter Repeater: 146.01 Input/146.61 Output

Meeting Minutes July 12, 1995

The meeting was called to order at 7:40 p.m. by Vice President Dick, N9QFY. The minutes for the June meeting were accepted by club vote as printed in "Smoke Signals." Treasurer Glen, AA9MT, then read the treasurer's report. This was also accepted by club vote.

OLD BUSINESS

Ron, WS9X told the meeting attendees that the PL board for the club's repeater has arrived. It should be installed in the repeater by the end of the month. The PL will be 107.2. Normally, the repeater will only use PL access, during times of interference (such as when band openings cause users of distant 146.61/.01 repeaters to key up the club's repeater). Even when the PL is on, club members with non-PL capable radios will still be able to use the repeater.

To do this, all they have to do is use the appropriate macro command to turn off the PL. They can then use the repeater to carry on a QSO (but please remember to turn the PL back on when you're done).

Mary, KB9GOY, informed the club that Gene and Theresa Hartlaub have received their call signs from the FCC. Gene's is KB9KXF, and Theresa's is KB9KXE. Hope to hear you two soon over the airwaves!

NEW BUSINESS

Kuby, N6JSX talked to the meeting attendees about several things. First, Kuby informed the club that a feature in the software used to run the club's BBS can now be used to initiate a subject search. By using the appropriate commands after reaching the prompter stage in the BBS, you can type in a letter for a alphabetic search, or a subject for a subject search. This allows you to quickly find the infor-

mation you want to see.

Kuby also asked the club to consider adding several features to the repeater to provide additional capabilities during weather alerts and other emergency situations. The first feature would be LTZ (long tone zero) capability. During emergencies, the repeater would emit a four second long zero (like on your tone pad) tone, to alert members with LTZ- equipped radios to listen for instructions dealing with the emergency.

Also, Kuby asked if the club would consider hooking up a weather radio to the repeater. Whenever NOAA weather issues a weather alert, the 1050 Hz tone that announces these alerts could be used to link this receiver to the repeater, providing club members with information about severe weather conditions. After five minutes worth of weather broadcasts, the repeater timer could be used to terminate this linkup until another update is broadcast by NOAA (these types of broadcasts through the repeater would be legal, by the way).

Ron, WS9X, then informed the club that one of the club's donated PCs (with an 8088 microprocessor and 20meg hard drive) has been refurbished with a video card and video display. This computer will be kept down in the club room, where it will be available for club member usage as a loaner to get started in packet radio (you'll have to supply the packet software and TNC). Ron said that he might also be able to get the other donated PC packet capable.

Commendations go out to Vice President Dick, N9QFY, for his work setting up and supervising the communications setup provided for the bike races in Manitowoc by MANCORAD on July 9. Without his efforts, and the efforts of club members who helped provide communications at points along the race course, none of this public service oriented activity would have been possible.

The meeting was closed at 8:30 p.m., and refreshments were served.

73, CU down the log.

Eric Rugowski, WD9IAB
MANCORAD Secretary

Meeting Attendees • July 12, 1995

Eric	WD9IAB
Dick	N9QFY
Glen	AA9MT
Dave	KB9KQA
Terry	N9PZT
Mary	KB9GOY
Denise	N4WGX
Roger	W9NPX
Ken	K9HAG
Jim	N9KGG
Chuck	N9WUN
Ron	ws9x
Red	N9GHE
Bob	KB9INK
Kuby	N6JSX
Ed	N6WJA
Len	N9QFO
Mike	KF9YI
Paul	N9QFX
Julie	N9PZX

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At University of Wisconsin, Stevens Point



WB9QFW 2-Meter Repeater 146.07-67 and Club Station

P. O. Box 923 • Plover, WI 54467

MEETING MINUTES JULY 12, 1995

President Lori Jasper, KA9ZGD, called the meeting order at 7:30 p.m. There was no program tonight.

Mary Eiden, KA9FAS, reported that we received a letter from the ARRL thanking us for our letter concerning the RM 8626 Petition. She read the letter she received.

The minutes were approved as printed in the BSSS. Joe Larson, N9JW, read the treasurer's report and it was approved.

Bob Baird, W9NN, reported that if the voice mailbox was removed we could put on a weather alert.

Lori, KA9ZGD, reported that there will be a Fox Hunt on Wednesday, August 9. There will be a picnic at Bob's, W9NN, house at 5 p.m. The Fox Hunt will start at 6:30 p.m. and will finish at 8:30 at the latest. A trophy will go to the winner. Lori had information on antennas for the Fox Hunt.

After a discussion about having the club furnish for the food for the picnic, Al Mallek, K9WVM, moved that the club spend up to \$50.00 for refreshments and food the event. Joe Larson, N9JW, seconded, the motion passed. Everyone attending should bring a dish to pass.

Lori announced that Art Wysocki, N9BCA, is resigning his position as Swapfest Chairman. Lori received the following letter from Art concerning his resignation:

"Dear Lori:

"As you know, I had a very bad heart attack and was told by my doctor to give up being Swapfest Chairman. So I am writing this letter to you as my resignation.

"I have enjoyed my years doing the swapfest; trying to get dealers to come, getting the raffle going, working on the flyer and working with all the different hams. In all the years of doing the swapfest, no one ever refused to help me when I asked them for help.

"Of all the people that helped me, I would like to give a special thanks to these people:

"KA9LAQ, Mike Pagel, who took care of getting the building and rooms for the different organizations.

"N9JW, Joe Larson, who did an outstanding job taking care of the testing.

"N9ICY, Mark Nemzoff, who would listen to me whenever I needed someone to talk to when I would get discouraged. Sometimes it would be 11:00 or 12:00 at night. Thanks, Mark.

"N9JH, Ron Howe, who would keep me up-to-date on what to charge for tables and admission.

"KA9ACE, Jim Benak, who I could always call upon even at the last minute when I needed someone to fill a spot.

"And my wife, Lucy, for taking and answering all of those phone calls when I was away.

"And once again thanks to everyone that help make the swapfest such a great success.

"73,

"Art Wysocki, N9BCA"

Thank you, Art, for the terrific job that you did for us! Hope you are doing well!

Lori announced we will now be looking for a new person or persons to take over handling the swapfest and raffle. Bob, W9NN, asked about the price we are paying for the University Center. Mary,

KA9FAS, said that we should look into the possibility of Rec Center. It is not as large as the University Center, but the price for an entire day is just \$60.00. Mary belongs to another organization who held a one day convention there, and they managed to hold it there with no problem. She will talk with the other members of the other club she belongs to who worked with her in planning the convention and get the information on how many tables it would take to fill the Rec Center and what the cost of renting the tables would be.

Lori announced that elections are coming up in September. Joe Larson, N9JW, announced that he will again seek the office of treasurer and Mary Eiden, KA9FAS, also said she would again run for secretary.

Lori reported that we have been asked to be in charge of communications for the Horseless Carriage Club of America's tour they are doing in the area next year. This would involve a great deal of commitment on our part. After some discussion, it was decided we would not be able to handle this. If another club in the area would handle it, we would, of course, be willing to help out if we can; however, we would not be in charge of it. With our commitment to the Special Olympics State Summer Games and swapfest, it would not be in our best interest to take on another major communications project.

Al, K9WVM, reported that the shirts were delivered to everyone except for a few people. He will hold on to these and try to get in touch with these people. Since there was not time to have names and calls

put on them, Al said we could take them back to Plover Trophy and they would gladly have the names and calls put on the shirts. The bill for the shirts was sent to the club and all those who ordered them can pay Joe Larson, N9JW. If you are not sure, you can check with Joe as to how much you owe for the shirts you ordered.

The meeting adjourned at 8:20 p.m.

The next meeting will be held on September 13, 1995 at the UWSP Science Building at 7:30 p.m. No room number has been announced as well as the program for this meeting at this time.

A reminder that the Fox Hunt is August 9, 1995 in place of our regular Wednesday night meeting.

Respectfully Submitted:
Mary Eiden, KA9FAS
CWRA Secretary

ATTENDANCE

Lori Jasper	KA9ZGD
Mary Eiden	KA9FAS
Mike Eiden	WD9JID
Gene Kroll	KE9MA
Deb Kroll	N9EIL
Al Mallek	N9WBS
Al Mallek	K9WVM
Bob Baird	W9NN
Frank Guth	W9BCC
Joe Larson	N9JW
Dave Tamres	KB9IIF
Frank Podach	N9JQR
Robert Berna	Guest
Dave Golla	N9OVT

FROM THE EDITOR

• Coming in September BSSS: More Field Day photos; QCWA Chapter 55 activities; more photos of the STS-71/MIR mission; and other stuff.

• See the bottom of page 13 for info about how to get your news to BSSS the fastest way.

• Thanks to Roy Neal, K6DUE, for the kind words he passed to Maury, W9FBC, about BSSS. Roy told Maury, while in QSO from the Great Circus Train, that he considers BSSS to be "one of the premier Amateur Radio publications in the country."

• And, finally, the usual reminder to participating clubs: Please get your club's information (minutes, etc.) on their way to BSSS no later than five days after your club's meeting. We want to serve your club's members, but we must have your cooperation to do so. Thanks!

- Jim Romelfanger, K9ZZ

Eau Claire Amateur Radio Club

Carl Searing, W9NW, Secretary

1129 McKinley Road • Eau Claire, WI 54703

MEETING MINUTES JULY 11, 1995 35 PRESENT

The meeting was opened by President Kevin Zehr, N9OHE, at 1938 hours with a roll call, followed by the usual reading of the previous meeting's minutes and the treasurer's report.

WU9R and KE9CS reported on the Field Day activities on the UW EC campus. 443 contacts were made. N9CIQ accounted for many CW contacts. There were quite a few volunteer operators, and many visitors. The event was a good use for the club trailer, and it was noted that some upgrading was in order. The club voted to replace the existing fire extinguisher, and discussed making a DC power strip for future use, along with the possibility of better utilizing the battery box.

N9UXH heads up a new ARES group in Chippewa County. It currently has six members, and will work with the county emergency government.

The remainder of the meeting concerned our upcoming hamfest. All major areas (and most minor ones) were cussed and discussed for some time, and everything seems to be going well. It was

stressed that this is a club effort: Members are urged to allow children age 12 and under free admission when accompanied by an adult.

The August meeting will be at the University in Eau Claire, hosted by Bert Spangler, W9ZZI. Entitled "Technology in Education," the tour of state-of-the-art electronic teaching facilities will be led by Bert. It was suggested that members and guests try to get there a bit early, meeting in front of Schofield Hall on lower campus. Schofield is the old brick building on Garfield Street that faces the river, and is the only one having a flag on the roof. The tour will then proceed to the library. Since school will be out at the time of the meeting, parking lots will be free, with no permits required. Attendees may park in the large lot on the corner of Park and Garfield or in the large lot across Water Street from the Fine Arts Building, taking the foot bridge across the Chippewa River directly to Schofield Hall.

Lunch committee for the August meeting: W9ZZI.

Meeting adjourned at 2040 hours.

Respectfully submitted:
W9NW, secretary

Racine Megacycle Club

Alex Voss, N9RGX, Secretary

3333 Standish Lane • Racine, WI 53405

MEETING MINUTES JULY 12, 1995

The meeting was called to order at 7:31 p.m. by the president, Paul, N9RGW. The Secretary's report was accepted as printed in the BSSS. Dave, AA9HL gave the ever popular treasurer's report and, yes, it's all still there.

OLD BUSINESS

The old business started out with the Field Day report, given by Dave, AA9HL. We had to purchase a computer at the last minute for logging. The computer was the only one of three to make it the whole time. We had a lot of fun, the weather was great. Cheryl, WS9P, mentioned that we did make the channel 12 news, she did record it, and will try to bring it to the next meeting. 6 meters was hopping when Field Day opened and as night fell two meter sideband dominated the VHF contacts. Lee, N9VNU, and his brother made many of the HF phone contacts and Lee made his first DX contact to Columbia. All and all it is agreed that Field Day was a success.

Dave, WB9USI, gave the Hamfest report. He mentioned that we sent notices to many ham publications about the fest, however it didn't appear. Perhaps we're Jinxed!?!

Larry, WA9JMO, thanked the Megacycle club for the donation of a table to the Banquet Committee of the S.E. Wisconsin annual Ham Banquet, which is supported by the Megacycle Club, Kenosha Breakfast Club, Lakeshore Repeater Club, the QCWA chapter 162 and many other Racine/Kenosha area clubs.

Cheryl, WS9P, gave the special event station report. She said we will be operating on 40, 20, and 10 meters on the 15th and the 22nd of this month. She also asked for help manning the station.

Larry, WA9JMO, mentioned that we needed more volunteers for a Wednesday ham class. Nobody was able to help unless it was on Thursday. Larry said we are looking at a start date in September and the class would run for 2 weeks. A motion

HAM CALENDAR Courtesy Racine Megacycle Club

Aug 14 RMC Meeting
Aug 18 RMC Fox Hunt
Aug 26 Hamfest at Onalaska

Sep 11 RMC Meeting
Sep 15 RMC Fox Hunt

Oct 6 RMC Fox Hunt
Oct 9 RMC Meeting

was made and passed that we sponsor a ham class in September on Thursday nights.

NEW BUSINESS

Bill, NW9P, invited everyone to stop in at the Kenosha Breakfast Club, at the South Port restaurant on Hwy. 50 on the first Sunday of the month from 7:30 to 9:00. There are Door Prizes and a \$100 Drawing. Ray, WB9LST, added that everybody's name in the Racine/Kenosha is in the drawing and you MUST be present to win. Each time you show up you get your name in there again, and you get it in once more if you bring the XYL (unless she's a ham). Bill mentioned that there were many faces in the room who could have been a winner but weren't there that time.

Ken, N9WHR, made a motion to give a pair of hamfest tickets to our clandestine donors; the motioned passed unanimously.

The meeting was adjourned at 8:33 p.m.

Respectfully Submitted:
Alex, N9RGX, Secretary, RMC

SOMETHING ON YOUR MIND ABOUT AMATEUR RADIO?

Sound off! Write a letter to the editor. Send it to Jim Romelfanger, K9ZZ, 412 1/2 Ash Street, Baraboo, WI 53913.

Taylor County Area Amateur Radio Club

Mike Schoenfuss, N9GHZ, Secretary

P. O. Box 401 • Abbotsford, WI 54405-0401

MEETING ANNOUNCEMENT

The next regular meeting will be held on Thursday, August 3rd at 7 p.m. in the Emergency Government meeting room located in the basement of the sheriff's annex to the Taylor County Courthouse, corner of 2nd and Ogden Sts., Medford, WI. Talk-in on the 147.15 Medford repeater (+ 600 kHz) or 146.52 MHz simplex.

EXCERPTS FROM MINUTES OF JULY 6, 1995 MEETING

Meeting was called to order by President N9GEN. Present were N9GHZ, KA9WDX, W9QHI, N9XZI, N0IMJ, N9GEN, KB9KBN, AA9LE, N9UBQ and WD9FWP.

Minutes of the June 1, 1995 meeting were read by Secretary N9GHZ. Treasurer's report was presented by Treasurer KA9WDX. The latest quarterly billing from BSSS was just recently received. N9UBQ received a billing from Northway Communications for replacement of the club's 2-meter repeater transmitter crystal and necessary labor. It looks like this will be covered under a maintenance contract between the county and Northway. Motion by N9GEN, seconded by KB9KBN, to send a letter of appreciation to Taylor County Sheriff Bill Brenneman for his efforts in ensuring our coverage under the maintenance contract. Motion carried.

President N9GEN, Taylor County Emergency Government Coordinator N9UBQ and Taylor County ARES Emergency Coordinator N9GHZ reminded those members present to be alert and keep their radios on and listen to them whenever severe weather is in the area. N9GEN mentioned that he had tried to bring up a weather net on Saturday, June 24th during a storm, but received virtually no response.

N9GHZ reported on the Amateur Radio communications that were provided for the American Cancer Society walkathon on Saturday, June 3rd in Medford. He also passed around a thank-you card he received from Jan Berry of Memorial Hospital of Taylor County. She is the coordinator of the walkathon.

N9UBQ reminded those present that the annual Governor's Emergency Government conference will be held on August

16th and 17th. It is unknown at this time if there will be an Amateur Radio station set up at the conference this year or not. If there is, everyone is encouraged to check in with it, either directly or indirectly. There will also be an E-9-1-1 workshop on October 4th and 5th in Black River Falls. For more information, contact N9UBQ at the Taylor Office of Emergency Government.

It was reported that there was no additional information available as to the status of the antenna-sharing project between the club's 2-meter repeater and a business paging service out of Wausau. N9GHZ is still working on getting the access code changed for the repeater autopatch. KA9WDX will be sending out form letters soon to those who have not yet paid their 1995 club membership dues or BSSS subscriptions.

Meeting was adjourned.

CLARK/TAYLOR COUNTY AMATEUR RADIO EMERGENCY SERVICE (ARES) NEWS

Mike Schoenfuss, N9GHZ
ARES Emergency Coordinator

Don't forget to try to check into the weekly ARES net held Wednesdays at 8:30 p.m. on the Medford repeater (147.75/147.15). If the repeater is down or not functioning properly, alternate frequencies, in order, are 147.15 MHz simplex and 146.52 MHz simplex. You're also encouraged to volunteer for net control duty for the net.

CONGRATULATIONS TO..

• Robert "Bob" Goldamer (K9ONE) and his wife Arletta, of Abbotsford, on the occasion of their 50th wedding anniversary. □

Every new radio amateur in Wisconsin gets a sample copy of Badger State Smoke Signals. If that's you, you're invited to subscribe. Please use the form on page 5. Thanks!

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Washington County Amateur Radio Club

Tom Waldschmidt, N9LZW,
Secretary
465 Elder Lane
Allenton, WI 53002-9799



Club Repeater: 146.73 MHz

MONTHLY MEETING MINUTES JULY 13, 1995

The July 13th meeting of the Washington County Amateur Radio Club was called to order at 7:30 p.m. with 10 members and 2 guests present. The meeting was preceded with personal introductions by everyone present.

The minutes of the June meeting were read by Secretary Tom, N9LZW. There was a motion by Keith, KY9P, second by Paul, N9KIK, to approve the minutes as read. Motion carried.

Treasurer Dave, KA9RNU, was unable to attend this meeting. The treasurer's report was read by Tom, N9LZW. The

report indicated that our membership has grown to 46 members. There was a motion by Gary, W9XT, seconded by Don, K9GR, to accept the treasurer's report. Motion carried.

The repeater committee report was given by Don, K9GR. Don stated that the repeater project is nearing completion. The antenna is ready to be installed on the tower as soon as the mounting brackets are drilled. The repeater still needs some final tweaking and the duplexers are being installed in a cabinet. Don stated that he broke off an 8/32 inch tap and needs to get a replacement and remove the broken stub. Don expects to have a committee meeting in the near future.

OLD BUSINESS

Walt, N9LLS, said that Field Day Chairman Paul Ripple, W9SIZ, reported that we exceeded last year's Field Day score with the 4200 points accumulated this year.

Larry, WB9BVB, stated that the club's annual picnic is scheduled for August 5, with a raindate of August 12. It will be held at West Bend's Riverside Park beginning at 12 noon.

NEW BUSINESS

Walt, N9LLS, reported that the club is in need of someone to store the club's mast and antennas. Sherm, W9NGT, has stored this equipment for many years and would like someone else to take over.

There being no further business for this meeting, the President entertained a motion to adjourn. A motion to adjourn was made by Don, K9GR, and seconded by Maury, W9MQD. Motion carried.

*Respectfully submitted:
Tom, N9LZW, Secretary*

Following the meeting the members enjoyed a program put on by Jerry Kra-

czek, K9HXA. Jerry has written a computer software program which works in conjunction with Icom receivers. The program greatly increases the scan rate, and performs many recording and database functions. Jerry also has written a computer program that makes programming repeater controllers much easier. For more information write to Delta Research, POB 13677, Wauwatosa, WI 53213, or call (414) 353-4567

BREAKFAST SCHEDULE

Larry, WB9BVB, our club's Food Chairman has provided us with the following breakfast schedule for the month of August. Club members get together for breakfast each Saturday morning. Guests are always welcome.

Aug 05: 9:00 a.m., Parkside Cafe, Jackson

Aug 12: 9:00 a.m., Fay's Restaurant, West Bend

Aug 19: 9:00 a.m., Slinger Inn, Slinger

Aug 26: 9:00 a.m., Jimmy's Restaurant, Jackson

Wisconsin Valley Radio Association

Dee Duckett, N9SDM, Secretary

P.O. Box 363 • Wausau, WI 54402

Six Meter Repeater: 51.74 Input/51.24 Output

MEETING MINUTES JUNE 6, 1995

The regular monthly meeting of the WVRA was called to order by President Mike Wild, KB9DED.

Attending the meeting were N9SDM, N9SDN, N9SDI, N9UAG, KB9FRB, KB9DZG, K9MIX, N9TTA, N9PHC, N9QWR, N9OWD, KB9JWQ, KF9RU, N9QKT, KD9YY, K9LWL, N9NQQ, N9NQY, Kerry Stevenson, Debbie Grulkoski, KB9DED, N9IAB, N9FOL, and K9BX.

The minutes were read by Secretary N9SDM. N9QWR had a correction: He would donate a mobile rig for the club to use in cross-band repeat should the repeater need to go down in the move/additions. Correction was noted. N9NQY made a motion to accept the corrected minutes. K9MIX seconded. Passed by the membership.

N9IAB gave the treasurer's report. N9QWR made a motion to accept the treasurer's report, seconded by N9TTA, and passed by the membership.

KB9DED introduced some new faces: KD9YY, K9QKT, Kerry Stevenson, and Debbie Grulkoski (call pending).

NEW BUSINESS

K9MIX indicated that a post office employee spoke to him about giving the club a tour of the post office. If there is an interest, he will need to know how many, and there can be no late comers. It could probably be set up for the August meeting. K9MIX asked for a raising of hands from those interested.. all attending were. N9QWR made a motion to have K9MIX arrange the tour for either the August or September meeting. N9SDN seconded, passed by the membership.

N9SDN inquired about this year's picnic: Should it be in July like last year? The first Tuesday of July is July 4, perhaps the next week would be better, perhaps on the weekend. N9QWR made the motion to have the WVRA annual picnic on Sunday, July 9, time 12 noon, place Blue Gill Bay Park. N9SDM seconded, passed by the membership. N9MIX suggested looking into renting the shelter. N9SDN will check into it. N9SDI indicated reservation cost of possibly \$25 to \$30.

N9SDM gave the hamfest report. Also gave thanks to the following for their help: N9LIA, KB9FRB, N9NQY, KB9JWQ, N9NQQ, KB9DED, N9IAB, N9QWR, N9NMH, N9NQK, N9MIX, N9UAG, and N9SDN. In the future, N9SDN would like

to have a short meeting with the volunteers; date, time and place to come. Hamfest was a success, had several hundred attending. If the club wishes to continue the hamfest, planning for next year needs to start now.

OLD BUSINESS

Six meter offset change: N9NQQ suggested recrystalling the rig for the 1 MHz split; feels it would run better. The range is pretty low right now. He also feels it should be reCOORDINATED. N9OWD asked if the PL would be taken off. N9IAB indicated it would run about \$25 to \$50 for the new crystals. N9NQQ made a motion to recrystal and reCOORDINATE the 6-meter repeater. N9QWR seconded, passed by the membership.

Field Day: It's coming up fast. N9IAB indicated that the insurance company has cashed the renewal check, however, no confirmation has been received so far. KB9DED again indicated the club is not serious about DX contest, just have a good time. He would also like to keep Field Day alcohol-free this year, the reason being this should be a family event, we are at Boy Scout camp, and, hopefully, there will be some scouts there. K9MIX asked if the news media has been contacted. N9SDM will send a news release. Per N9IAB, the beam and dipole will be out there.

Joe is waiting for some help to move the repeaters to a more accessible location and needs more people. N9NQQ and N9IAB volunteered.

N9NQQ reminded everyone of the Fat Tire Flat Footed Biathlon on June 18 and the Gear Grinder Classic September 10. He asked for volunteers for the June 18 race. Several people volunteered.

Tax exempt - N9NQQ was told that incorporation would cost about \$500; this has already been done. He was advised to go through an accountant to finish the papers. The accountant he knew is currently on vacation.

Weather spotters and Channel 7 - N9NQQ indicated that both Rich and Bill feel there should be an agreement with channel 7 to NOT relay info to Tony from Channel 7 only. Part 97 indicated that any information used for gain is not legal.. unless it is inadvertently gotten. The information cannot go directly to Tony. He must receive the information like anyone else, via a scanner or a radio. N9NQQ suggested the board draw up the agreement soon, as it is weather season.

Bill Berge has donated a lot of time to helping the club. It was suggested that the



SHEBOYGAN County Amateur Radio Club

Mike Musiel, KF9SJ, Secretary
N9001 Dairyland Rd., Cleveland, WI 53015

There was no regular meeting of the Sheboygan County Amateur Radio Club in July. The next scheduled meeting of the SCARC will be Tuesday August 8. The SCARC meets at the Red Cross Building, 2032 Erie Ave., Sheboygan WI at 7 p.m. on the second and fourth Tuesday of the month. There is usually no general membership meeting in February, because of the Banquet, and July, because of Field Day.

REPEATER UPDATE

The repeater was scheduled to be moved on July 22 to its new temporary location. The club hopes to keep the interruption of service at a minimum. A new permanent site is being researched, but will take a little time to secure. The club appreciates the offers and suggestions that have been made by all. If there is an interruption in service, club and weather traffic will shift to the other local simplex and repeater frequencies. The alternate 2 meter repeater frequency is 147.255, N9REH, with a PL 127.3. This system has excellent coverage of the Sheboygan area.

WEATHER NET REMINDER

Please be aware that we are in the middle of the "weather net" season. When a formal weather net is in progress, please call net control with the following types of reports only! 1. Tornado on the ground. 2. Funnel cloud aloft and rotating. 3. Winds 55 mph or higher. 4. Hail, one-half inch or larger. 5. Actual damage or flooding. 6. A wall cloud with rotation.

Many of us have been caught up in the moment and reported items that are not relevant, myself included. This takes up valuable air time and may prevent someone from reporting a important develop-

club give him a paid family membership in appreciation for all his 6-meter work for the WVRA. N9NQQ made a motion to give Bill Berge a one-year paid family membership to the WVRA. N9NQY seconded, passed by the membership.

440 purchase - N9TTA wonders if the \$3800 asking price is a good one. No one is really sure. N9NQQ asked the board to look into the cost of a new, equivalent system and compare prices. Per N9IAB, the antenna and feedline belong to the club. KF9RU volunteered to call around for some price quotes.

N9TTA needs volunteers for a marathon canoe race the weekend of July 31 from 9 a.m. to 3 p.m.

KB9DED indicated there are no club

ment in a timely manner. So please, keep it concise and short, if you are asked to only report the items listed above, please don't take it personally. If things are slow for net control, the operator may ask for specific conditions in areas of the county that do not follow the above list. These reports are at the discretion of net control. Thank you for your cooperation.

PUBLIC SERVICE

If you can help out with public service events this summer, contact Penny, N9TCF. Some groups do not give us much notice, so stay tuned to the Monday Night Net for current club news and events. We rarely have enough volunteers, so if you would like to put some time back into your community, please contact Penny.

NETS

NOTICE! The Sunday night packet net will be moving. Stay tuned for the new day and time.

Monday Night Fun Net. Meets at 7 p.m. local time on 147.06 MHz (+107.2PL). All with an Amateur Radio license of Technician class or higher are welcome to check in to this informal get together.

Monday Night 10 Meter Fun Net. Meets around 7:30 p.m., generally following the 2 meter net. The net meets on 28.350 MHz (USB), and all code class Amateur Radio operators are welcome to check in.

Sunday Morning Coffee Clutch and G5RV Net. The net meets at 9 a.m. local time on 3.860 MHz (LSB). All radio amateurs of General Class or higher are welcome to attend.

Submitted by Michael J. Musiel, KF9SJ

code changes yet. If there are changes, an effective date will be included, and changes will be on different colored paper. KB9DZG suggested we get code changes ready to go on a moment's notice is case any problems should develop.

KB9DED asked about fox hunts. There is one coming up at the Stevens Point hamfest. N9SDM has a spot, just hasn't had a chance to get the fox hunt going.

N9NQQ made a motion to adjourn, seconded by N9NQY, passed. Meeting was adjourned at 8:35 p.m.

The WVRA would like to extend its very special thanks to the Merrill VE Team for their participation in the test

Continued on page 13

Red Cedar Repeater Association, Inc.

Steve Hart, KA9OMC, Secretary

E616 810th Avenue

Knapp, WI 54749

2-Meter Repeater: 146.01 Input/146.61 Output

Greetings, sponsors and guests,

Nice to hear from many of you about your summer activities.

WA9CCB, Louis from Durand, is back from trips to Iowa and a wedding near LaCrosse; N9NOY, Perry, attended the granddaughter's tennis matches north of the Twin Cities; NQ9X, Ed, attended the 100th anniversary of the neighboring Lutheran Church at Pleasantville. Ed said that "he planned on attending the next 100 year get together."

N9GQU, Mike, is back from his cross country solar vehicle competition, where his team finished in about the middle of the total entries of participating universities. KG9CT, Chuck, from Spring Valley, enjoys choir practice at Durand with the "Midnight Watchmen." AA9GB, Cory at Menomonie, has graduated from Menomonie Senior High, and is working at the University Stout installing communications cable for the duration of the summer. Cory will be attending the University Eau Claire

campus. N9TTV, Glenn from Cedar Falls, recently attended the car show at Iola, WI WB9YMB, Jim, is also back from a trip to his son's QTH in Idaho who's callsign is WB7TYH or "tip your hat."

KC4VXO, Gene, has announced a fox hunt in Menomonie scheduled for August 12th at about 10 a.m. starting at the Thunderbird Mall following the Saturday morning coffee.

NX9F, Jim, reminds us of the upcoming Tin Man Triathlon scheduled for August 26th in Menomonie. Volunteers for communications should contact Jim.

My calendar reminds me that our first fall social hour will be September 26th in Menomonie.

See you on the net Monday evenings at 6:30 p.m.

73.

RCRA Secretary/Treasurer
Steve Hart, KA9OMC

NEW PRODUCTS

ICOM INTRODUCES IC-T22A VHF AND IC-T42A UHF HANDHELDS

Icom introduces a new generation of handhelds, the IC-T22A and IC-T42A. Packed with innovative new features, the IC-T22A and IC-T42A fit comfortably in your hand. Combined with a lightweight (under 11 ounces) and compact (2-1/4"W by 4-5/16"H by 1-1/16"D) design, the IC-T22A and IC-T42A can be easily carried in a shirt pocket.

Memory channels are expandable from 40 to 80 (plus scan edges and call channels). A six-character alphanumeric name can be programmed into each memory for operating convenience and convenient memory management. A one channel log memory for auto storage of the last-transmitted frequency is another convenient operating feature. An EEPROM prevents memory loss if the battery runs low.

An alphanumeric message pager provides 10 transmit and 10 receive message memories, independent from the regular memory channels. This allows you to use the transceiver as a simple message pager (up to six characters per message).

Five DTMF memories for auto dialing are included, with programming for 30 digits each. A 50 frequency CTCSS tone encode is standard.

For easy operation during driving or portable operation, a user-programmable remote controlled microphone allows you to change the default functions of the optional HM-75A's switches. This makes it easy to change the frequencies.

A backlit keypad allows you to access multiple functions, while a large easy-to-read display with four selectable levels of contrast indicates 17 different functions plus battery capacity and the sub-band frequency.

The IC-T22A transmits and receives on 144 to 148 MHz; the IC-T42A on 440 to 450 MHz. Both have dual-band receive capability for full duplex crossband operation between the 2-meter and 70cm bands.

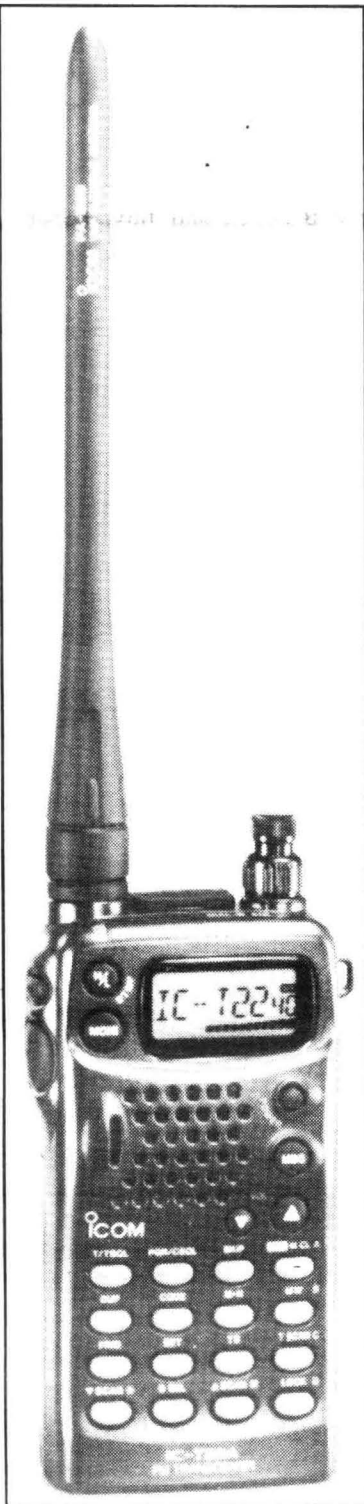
Designed for low-power consumption while receiving (only 8mA on standby) with an SC-1257 power module for six watts of RF output power with a 13.8V DC power source, you'll be able to operate longer and even receive in fringe areas. An auto power control function conserves battery life by monitoring the repeater signal strength and selecting the best matching output power from five levels (down to 15mW). Further, an auto low power function automatically selects 15mW just before battery exhaustion so you can complete your QSO.

Scan three to four times faster than most handhelds (33 channels per second/12.5 memory channels per second). Other scanning functions include scanning the "bonus band" while the primary band is being scanned. Or use tone scan to identify sub-audible tones if you don't know the tone frequency when trying to access a repeater. Further, you can all 114 memory channels. Plus, with six priority watch modes, you can monitor other signals while operating on a VFO frequency.

Innovative memory functions allow you to store the operating frequency, tone/offset frequency, skip information, and dual-band frequencies for crossband operation. With the RPT-M key, you can quickly recall settings of the repeater you worked last.

The IC-T22A and IC-T42A come with a flexible antenna, belt clip, hand strap, rechargeable BP-151 NiCd battery pack and BC-74A charger.

For information on pricing and availability, please contact your local Amateur Radio dealer, or Icom America, Inc., 2380-116th Avenue N.E., Bellevue, WA 98004, (206) 454-8155.



Quarter Century Wireless Association Southeastern Wisconsin Chapter 162

Larry McCalvy, WA9JMO
5400 Six Mile Road
Radne, WI 53402



Fern Fisher, W9LCJ, has recently acquired a four footed roommate of distinct lineage -- I believe the exact quote is a Heinz-57 variegated human companion. The dog's name is Gordy. And, I have heard from several very shaky and mostly unreliable sources, that, after Fern retires for the night, there are radio signals emanating from her array of antennas. Under closer observations, these sources tell me, the following nightly transmissions have occurred on the low bands, CQ DX DE Golf Zero Roger Delta Yankee, Arf-Arf. If you doubt me, give a listen on the 15 or 20 meter bands any evening after midnight. I wouldn't pull your leg! Well, maybe just a little.

Bob Jensen, W0WLN, tells me he is working very diligently on the code trying to break through to the needed 20 WPM barrier. Bob says it is a bear. As I sit here at the computer terminal, I can see my Instructograph setting in the corner, unused these many many years, knowing if an upgrade is in my future, I have to join Bob in his daily ritual.

Our annual picnic will be held on Sunday, the 20th of August at the home of Larry, WA9JMO, and Wendy, N9PAC, McCalvy, beginning at 1 p.m. The Chapter will provide soft drinks and watermelon. Larry and Wendy will serve roast-corn, and a large grill will be available.

Attendees are asked to bring a food dish to pass and their own meat to grill. The McCalvy farm is located at 5400 Six Mile Road in the town of Caledonia. Take I-94 to Hwy G in Racine County (exit 327), head east for about six miles. Hwy G and Six Mile Road are the same as they pass the farm. If you cross Hwy 31, you went 1/2 mile too far. The farm has black horse fencing in front on the North side of Six Mile Road. If you are coming from Racine or points southeast, take Hwys 31 or 32 North until you cross Six Mile Road, then go West for 1/2 mile. Fishing, boating, swimming, flower garden walks and animal viewing are offered all attendees. Hope to see all of you on the 20th, ready to party.

Six days later, Saturday the 26th of August 1995, will be our first joint QCWA Chapter social event. Chapters 55, 162 and 174 will gather in Oshkosh at Robbins Restaurant and Cocktail Lounge, beginning at 11 a.m. for registration and Eyeball QSO's. Our family style dinner will begin at 12 noon, followed by a short program. Hopefully, you have all received and completed a flyer/reservation form for this gala event. Wendy and I are looking forward to this first of a hopefully annual gathering of Wisconsin QCWAers.

73, Larry McCalvy, WA9JMO

Riverland Amateur Radio Club

Tom O'Brien, WB9BJQ
Secretary

Club mail address: P.O. Box 621
Onalaska, WI 54650



We're sorry, but, at press deadline, no information for publication had been received from the Riverland Amateur Radio Club. ☐

MFJ ENTERPRISES MFJ-1792 SUPER 80/40 METER VERTICAL ANTENNA

The MFJ-1792 80/40 Meter Vertical Antenna was designed for high performance, and features End loading -- the most efficient type -- for only \$159.95.

With high performance as its goal, the MFJ-1792 80/40 Meter Vertical Antenna features a full size quarter wave radiator for 40 meters, and a full 33 feet of ruthless radiating power -- No other quarter wave vertical can match the MFJ-1792's feats!

The MFJ-1792 features End loading, the most efficient form of loading -- used for 80 meters. This is accomplished by a virtually lossless 4 1/2 foot capacitance hat and a high-Q coil, wound with Teflon covered wire on a low loss fiberglass form.

The entire length of the antenna is constantly radiating superb power. You'll never lack for power with the MFJ-1792 80/40 Meter Vertical Antenna!

The MFJ-1792 also features a unique, built-in, L-network for lowest SWR, and is made of extra high strength 6061-T6 aluminum tubing, super strong solid fiberglass insulating rod and stainless steel hardware.

This awesome vertical antenna will handle 1500 watts PEP SSB. It comes with a heavy duty mount and will require guying.

MFJ also offers the 80/40/20 Meter Vertical Antenna, which is the same in context to the MFJ-1792, but has a full size 20 Meter quarter wave radiator. This model, the MFJ-1793, offers the 20 meter inclusion for only \$179.95.

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For more information or to order, contact any MFJ dealer or MFJ Enterprises, Inc., P.O. Box 494, Mississippi State, MS 39762 or call (601) 323-5869, Fax: (601) 323-6551, or order toll-free at 1-800-647-1800. ☐

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THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)

Bob Gedemer, KA9JAC
609 Wilson Street, Neenah, WI 54956

Andy Nemec, KB9ALN, Editor, 1250 Main Street, Green Bay, WI 54302

A Word of Introduction.

Hello, and thanks for stopping in to read the Wisconsin Packeteer. My name is Andy Nemec, KB9ALN, and I have inherited the job of Editor of this section from Joel, N9BQM. Regular readers may have seen the series that I have contributed called "Using the Wisconsin Network". It seems as though some folks thought I should do a little more, so here I am.

Joel has done a good deal of work on this, and I would like to thank him for that work and his allowing me to contribute over the past 5 months. I do hope that I can provide some interesting articles for the regular readers of this page.

I have been involved in Packet Radio for about 2 or 3 years now, and needless to say, have found it to be of great interest to me. I operate a TCP/IP station in Green Bay, and have a keen interest in Networking.

Readers who have material to contribute or have an interest in something that they would like to see are encouraged to contact me through any one of the following methods:

Packet Mail: KB9ALN@KA9JAC.WI.USA.NAUS Mail:
Andy Nemec, 1250 Main Street, Green Bay, WI. 54302.
73 and hope to hear from you. Andy.

Using the Wisconsin Network - Part 6 by Andy Nemec, KB9ALN

In Part 5 of our series, we started a journey from Green Bay to Milwaukee, and stopped our travels in Manitowoc. We saw the "Routes", "Nodes" and "Info" commands in action, and started to decipher the seemingly mysterious and cryptic node aliases. We found that the "Routes" is often a much better indicator of where a node goes than the "Nodes" command, and we also found it useful in avoiding unintended journeys onto LANs. Last month we stopped our journey in Manitowoc. Some folks felt they were "stuck" there. Now really, if you looked around a little, Manitowoc is not such a bad place to be, is it?

This part will find us moving on to Sheboygan. In addition to being a nice town, it also has an interesting (and rather large!) nodestack. And when we were in Manitowoc, our use of the "Routes" and "Info" commands told us that the 9600 baud backbone node in Sheboygan is #446SH:NF9R-9.

So now we will connect to that node. Once connected to this node, which we know as a backbone node, we send the "R", or "Routes" command. Here is what we see (in abbreviated form):

```
#446SH:NF9R-9} Routes
1 WISHEL:NF9R-8
1 SHEX:NF9R-6
1 SHEBBS:NF9R
1 #SHE2:NF9R-2
1 #SHEB:NF9R-3
```

Now let's look at the possibilities for continuing our journey via the "Backbone" nodes. Remember that backbone nodes generally have aliases starting with the # symbol. The SHEBBS is just what you'd think - The Sheboygan County Amateur Radio Club BBS. SHEX does not seem to indicate much to us (but really does - it is a "Cross-Stack" Node). There appear to be 2 possibilities here. Let's try connecting to them in order - first, #SHE2.

Once connected, sending the "I" (Info) command tells us that this is a backbone node intended to connect us to the KR9S DX Cluster. DX'ers may want to stop right there, but we are headed to Milwaukee and this is clearly not the right route. So, we send the "B" (Bye) command and are returned to #446SH with the "Welcome Back" greeting.

Now we try the other possibility, #SHEB and connect to it. The "I" command will tell us that

it is a 4800 baud link between Plymouth (near Sheboygan), and a node located in Slinger (near Milwaukee), #SLGB. If you have been looking at a state map, you have a good idea of the locations.

So now we connect to #SLGB. The "R" Command will show (again, in abbreviated form):

```
#SLGB:WB9TYT-8} Routes
1 WIMKE:WB9TYT-9
1 WICONV:WB9TYT-6
1 WISLG:WB9TYT-7
1 WINOT:WB9TYT-3
1 #SLGH:WB9TYT-5
1 WB9TYT:WB9TYT
```

It appears that we have neared the end of our journey. If you connect up to each node and send the "Info" command, you will find out which ones are LAN nodes, and what frequency and area they serve. You will also find that these nodes are really not located in Slinger, they are now located in Milwaukee! The node alias are a carryover from a few years ago when they were, indeed, located in Slinger.

If you have been keeping track of the journey, you will have a record of what nodes have been used. The correct sequence of nodes thus far is: WIGRB, #446GB, #446AG, #446MT, #446SH, #SHEB, #SLGB, and then the LAN Node (Either WISLG or WIMKE).

We have finally made the journey, and have used Backbone nodes between the LAN nodes. In our next installment, we will discover a few techniques that will insure a good connection without as much typing. We will also see how to deal with "Marginal" paths. Until then, 73...

A new year begins for WAPR membership, and now more than ever is the right time to join this growing, dynamic organization! It's a time of unprecedented growth for packet radio all over the country, and Wisconsin certainly is no exception.

WAPR is your statewide organization devoted to

the betterment of packet radio, on all levels. WAPR coordinates frequency usage for packet radio, networking standards, and helps to insure the free-flow of your packet mail and NTS traffic through the statewide network. Membership is annual, and runs from July.

WAPR membership is open to all amateurs who operate and are interested in Packet Radio. Your active membership in WAPR will not only help to maintain the Wisconsin Packet radio network, but help to develop it and manage it's growth.

Please consider joining WAPR today. It is as easy as clipping out the enclosed form and mailing it, along with the appropriate dues, to Bob at the address below.

THE TESTPOINT

(continued from page 3)

Bloomington, MN
TESTING: Second Saturday of the month, 9:00 a.m.

Valley Amateur Radio Club (VARC)
Contact: Paul Ramey, WGOG (612) 432-1640 or
Bill Martin, KAOCIR (612) 532-0438
Test Site: Hayes Community Center
14601 Hayes Road
Apple Valley, MN

TESTING: Second Thursday of the month 6:30 p.m.
W5YI
Contact: Dave Ranney, NOAXL (612) 936-9850
Test Site: Eden Prairie Library
479 Eden Prairie Drive
Eden Prairie, MN

TESTING: Third Tuesday of the month 6:30 p.m.

SE Metro Area Radio Club (SEMARC)
Contact: Dave Harrell, NOIPN (612) 459-8678
Test Site: Cottage Grove fire Station
8641 80th ST., S

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NAME: _____ CALL: _____ HOME PHONE: (____) _____

ADDRESS: _____ CITY: _____ STATE: _____ ZIP: _____

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Your HOME BBS should be a full service BBS, not your TNC's mailbox.

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I OPERATE A: _____ DIGIPEATER WITH ALIAS OF: _____

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_____ YES I want to receive Badger State Smoke Signals and I understand that part of my dues goes to pay this subscription. cost \$20.00

_____ NO I do not wish to receive Badger State Smoke Signals as a part of my WAPR membership. Cost \$15.00

COMPLETE and return this form with your check or money order - \$15.00 membership only or \$20.00 membership and Badger State Smoke Signals. made payable to W.A.P.R. (NOT payable to Bob Gedemer) to:

Bob Gedemer KA9JAC/WAPR
609 Wilson St.
Neenah, WI. 54956-3129

Cottage Grove, MN
TESTING: Third Saturday of the month, 9:00 a.m.

The above information has been furnished by the various VEs. However, it is suggested that you confirm time and date BEFORE you make the trip to the test site. Occasionally, test my be canceled or dates and locations changed. A Phone call could save you some grief and a wasted trip.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules. Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN at the address shown on page 2.

For the Ladies

By Nancy Johnson, N9NZM
407 Adams Street
Fort Atkinson, WI 53538

Sometimes I feel I have been treated differently because I am a woman. When Al and I went to the swapfest for the South Milwaukee Amateur Radio club, I got snubbed by fellow male hams!! Sometimes I have been talked down to. Or, you feel like someone will sell you a piece of gear that's inferior; it's as if I know less because of my sex! Male hams talk to other hams and there are no invisible lines to cross, so why are they there for me?

I know my view will be hard for some, but it's time to draw together as hams. We all have one thing in common: Amateur Radio. It should not matter who we are or what sex we are.

I have read an article in QST, June, 1995, "The Lady Operators of Alaska." The author of the article had one or two points to make. One was that male hams had not consented to an interview with him, but a few of the lady operators would.

I know there are other lady operators out there, so why are they not on the air? Good radio technique should allow us all to encourage other hams. Sometimes this calls for a couple of seconds between hams on a frequency to allow others to break in. Other times, it calls for mentoring/teaching new hams. There are times when only a lady ham will offer extra help in learning, up grading, or just plain encouragement. I have been helped by some of the guys out there, so not all fit into the category I have been describing.

Finally we are all individuals. We can all learn something from someone else so give us a chance, guys.

And have you ever noticed that when neighbors notice an antenna in the neighborhood, it's always you that causes any interference problems that they have? They never seem to think of other things around that could cause problems, like other two-way transmitters such as cell phones or C.B. The last time we were informed of a problem in our old neighborhood, it was because someone was using rabbit ears for an antenna. Even though we had been using filters, we could not stop the problem. I would like to again challenge you ladies to submit ideas to this section. It will continue, and we will all learn something from one another. This month I heard nothing from you.

Next month I am planning on writing about MARS. I would like to know what you have experienced in this area. Articles can be submitted with a picture to 407 Adams St. Fort Atkinson, WI 53538.



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FOR SALE: Swan 240 Transceiver + power supply. Flytecraft SFX-80 antenna, new. Millard Christianson, 424 W. Pine St., Sturgeon Bay, WI 54235. (414) 743-1310.

Yellow Thunder Amateur Radio Club

WB9FDZ (Original Club Call) • K9ODK (Robert L. Prine Memorial Call)



Raymond J. Matlosz, N9MLZ, Secretary

450 West 2nd Street • Reedsburg, WI 53959



The July 18, 1995 meeting of the Yellow Thunder Amateur Radio Club, Inc., was called to order at 7:40 p.m. by Steve Schulze, N9UDO at the request of the club vice president Bill Klinkner, N9KXX as neither he nor the club president could make this evening's meeting.

The minutes of the June meeting were accepted as published in the BSSS. Jim Decker, WB9UQT reported on the club financial status.

OLD BUSINESS: Field day went well and fun was had by all. The guest book indicated that visitors were not restricted to the club's geographical area. Photographs of the event were shown to the club members. Left to do was submitting the logs by the July 27th deadline.

NEW BUSINESS: Jim Decker reported Benny Ranum, WB9QQG recently became a silent key. Bill Hommel, KA9QFJ, passed around a draft of a banner to be used at club events. However, the draft contained a few errors and Bill indicated it was not necessarily a positive experience dealing with that company. The club suggested getting quotes from other places for a banner, black on yellow. Although the draft banner that Bill had was for a banner 18 inches by 13 feet for about 100 dollars, it was decided to get information of what others could do and then decide on size and price. Bill Hommel submitted a motion that club

activities be submitted to local newspapers on a regular basis. He volunteered to do that and the motion passed unanimously.

Buck night winner was Gary Pratt, WA9ECO, who was not present.

Meeting adjourned at 8:25 p.m.

FOX HUNT will be held at 6:30 p.m. Wednesday August 16, 1995 followed by a regular meeting in room 14 at the Baraboo Civic Center.

Sincerely,
Raymond J. Matlosz, N9MLZ
Secretary

The following members and guests were present:

Ken Johnson	K9DZG	Mazomanie
Leonard Wagner	N9XJG	Baraboo
Jim Decker	WB9UQT	Baraboo
Steve Schulze	N9UDO	Baraboo
Bill Hommel	KA9QFJ	Baraboo
Domenic Bianco	KA9QFK	Reedsburg
Jim Paul	N9LKY	Baraboo
Bob Baker	KB9LAZ	La Valle
George Gabay	N9QQR	New Lisbon
Mark Ard		Necedah
Raymond Matlosz	N9MLZ	Reedsburg

WANTED: 30L1 Collins amp or TL922A Kenwood amp. Argosy Ten Tec. Millard Christianson, 424 W. Pine St., Sturgeon Bay, WI 54235. (414) 743-1310.

FOR SALE: Colorful United States Stamps. 100 all different. \$1.00 postpaid. Richard Regent, K9GDF, 5003 South 26th St., Milwaukee, WI 53221.

How to repair equipment
The following was downloaded from a landline BBS.

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HOW TO REPAIR AN ELECTRONIC INSTRUMENT

Step 1: Approach the ailing instrument in a confident manner. This will give the instrument the mistaken idea that you know something. It will also impress anyone who happens to be looking, and if the instrument should suddenly start working, you will be credited with its repair. If this step fails to work, proceed to step 2.

Step 2: Wave the service manual at the instrument. This will make it assume that you are at least familiar with the source of knowledge. Should this step fail to work, proceed to step 3.

Step 3: In a forcible manner, recite Ohm's Law to the instrument (CAUTION: before taking this step, refer to some reliable handbook in order to be sure of your knowledge of Ohm's Law). This will prove to the instrument, beyond the shadow of a doubt, that you know something. This is a drastic step and should be attempted only if the first two fail. If this step fails, proceed to step 4.

Step 4: Jar the instrument slightly. This may require anything from a three to a six foot drop, preferably on a concrete floor. You must, however, be careful with this step, because, while jarring is an approved method of repair, you must not mar the floor. Again, this is a very drastic step. If this fails, proceed to step 5.

Step 5: Brandish a large screwdriver in a menacing manner. This will frighten the instrument, and demonstrate your knowledge of the deadly "short circuit" technique. Proceed to step 6.

Step 6: Add a tube...even if the instrument is solid state. This will prove that you are familiar with the instrument's design. This will confuse the instrument and thereby increase your advantage. If

this doesn't work, proceed to the most drastic and dangerous step. It is seldom used and is a final resort if all else fails.

Step 7 :THINK.....!!!!!!!!!!!!!!!!!!!!!!
73 from the N9QPI FBB v5.15C BBS.

Traveling west by covered wagon, a group got caught in a blizzard in the Rockies. One man told his best friend. I ain't gonna make it, Joe.

Sure you are, Al.

No, Joe, I ain't. So I want you to promise me something.

Anything, Al.

Promise when you and little Joe get there you'll name a town after me.

Sure Al.

Little Joe, will you remind your pa to name a town after me?

I promise, Mr. Buquerque.

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HAMFEST INFO:
Dan Vanevenhoven, N9LVS
2410 E. Newberry Ct.
Appleton, WI 54915
414-739-5101

EXAM INFO:
Larry Siebers, KD9IA
414-788-3823

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Glenn, AA9MT: 414-684-7096
Red, N9GHE: 414-684-9097 (Nights)

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3356 April Lane Stevens Point, WI 54481

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Swapfest sponsored by Ozaukee Radio Club
11448 N. Laguna Drive • Mequon, WI 53092

Kettle Moraine Radio Amateurs
SWAPFEST

Sunday, October 15, 1995

Waukesha County Expo Center

Info: KMRA Swapfest S46 W32264 Highview Rd.
Waukesha, WI 53188-9276

Red Cedar Repeater Association, Inc.

AUCTION

February 27, 1996 • 7:00 p.m.

American Legion Post 53 • 634 Water Street
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CONTACT:

Steve Hart, KA9OMC
E616 810th Ave.

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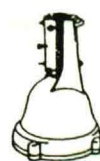
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